# AN ALMANACK

And Prognostication, for the Year of our Redemption, 1651.

*Being the third from the* Leap-year.

Shewing all the notable Aspects of the Planets with the Moon, Also the true places of the Sun and Moon every day, and the places of the other five Planets every fifth day at Noon.

With other Astronomical Calculations, and the reformation of some vulgar Errours, The Calculation of the Suns entrance into the four Cardinall points of the Zodiack: And other Astronomical Tables of the Right ascension, Altitude, and Declination of the Sun.

Also other necessary & delectable rules for the exact and speedy finding of the Houre of the Day and Night, and a briefe Chronologie of Years: With a Table of the Right Ascension and Declination of 40 of the eminent fixed Stars.

*Calculated for the Meridian of* London.

*By* William Leybourn.

LONDON
Printed for the Company of Stationers, 1651.

BIBLIOTHECA ROYALE

## Vulgar Notes, and Moveable Feasts, for this Year, 1651, according to the

| English Accompt. | | Foreign Accompt. | |
|---|---|---|---|
| 18 | Golden Number. | 18 | |
| 8 | Circle of the Sun. | 8 | |
| C | Dominicall Letter. | T | |
| 18 | Epact. | 8 | |
| 4 | Roman Indiction. | 4 | |
| February 9 | Shrove Sunday. | 19 | February |
| March 30 | Easter day. | 9 | Aprill |
| May 18 | Whitsunday. | 28 | May |
| May 25 | Trinity Sunday. | 4 | June |
| November 30 | Advent Sunday. | 3 | December |

### *The four Terms and their Returns.*

Hilary Term begins January 23, ends Febr. 12, and hath 4 Returns.

| | | |
|---|---|---|
| 1 Octab. Hil. | January | 21 |
| 2 Quind. Hil. | January | 28 |
| 3 Craft. Purif. | Feb. | 3 |
| 4 Octab. Purif. | Feb. | 9 |

Easter Term begins Aprill 16, and ends May 12, and hath 5 Returns.

| | | |
|---|---|---|
| 1 Quind. Pasch | Aprill | 15 |
| 2 Tres. Pasch. | Aprill | 21 |
| 3 Mens. Pasch. | Aprill | 28 |
| 4 Quinq. Pasch. | May | 5 |
| 5 Craft. Ascen. | May | 9 |

Trinity Term begins May 30, ends June 18, and hath four Returns.

| | | |
|---|---|---|
| 1 Craft. Trin. | May | 26 |
| 2 Octab. Trin. | June | 2 |
| 3 Quind. Trin. | June | 9 |
| 4 Tres. Trin. | June | 16 |

Michaelmas Terme begins the 23 of October, and ends the 28 of November, and hath 6 Returns.

| | | |
|---|---|---|
| 1 Tres. Mich. | Octob. | 30 |
| 2 Mens. Mich. | Octob. | 28 |
| 3 Craft. Animar. | Novemb. | 4 |
| 4 Craft. Mart. | Novem. | 11 |
| 5 Octab. Mart. | Novem. | 18 |
| 6 Quind. Mart. | Novem. | 25 |

# *To the Reader.*

Forasmuch as the Noble Science of *Astronomie* hath not been as yet treated of in the English Tongue, save only in *Urania Practica, Part* 2. Mr. *Vincent Wing* hath now in the Presse, & will shortly be published, a Book Entituled *Harmonicon Cœleste*: or, *The Cœlestiall Harmony of the Visible world, containing an absolute and entire piece of Astronomy*. The whole Worke consisteth of Four Parts.

The first is Trigonometricall, shewing the resolution of all kinde of Triangles, either Plain or Sphæricall, after a most artificiall and compendious manner.

The second, contains certain Propositions Astronomicall, tending to the first motions.

The third, containeth an exact Theorie of the Planets, with the Trigonometricall calculation of their Motions.

The fourth, sheweth how to calculate the true Motions of the Earth, Planets, and Fixed Stars, for any time past or to come, by new Tables calculated according to the Doctrine of the Third Book, which is grounded upon the most rationall Hypothesis.

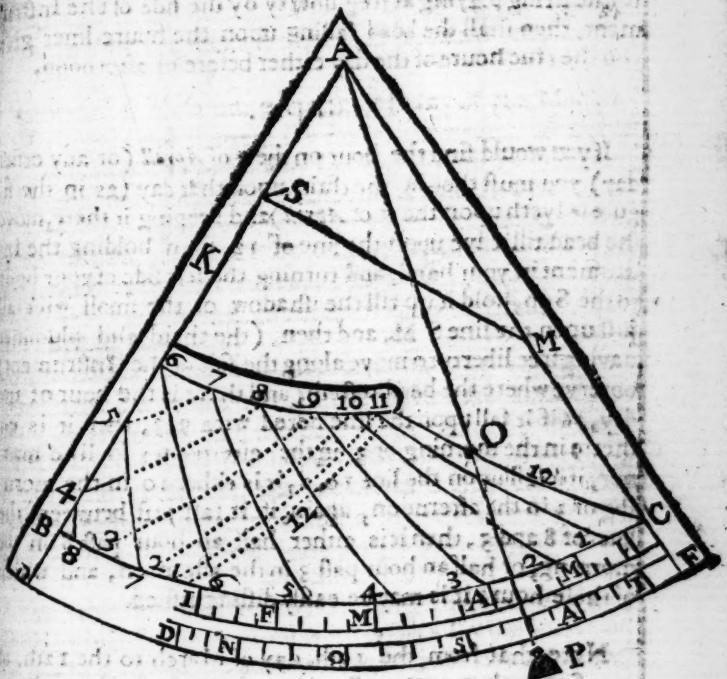
The whole Work is so methodically ordered, and plainly delivered, that those that are but reasonably acquainted with the first rudiments of the Mathematicks, may speedily attain competent skill in this most Noble Science.

There is a Book called *Short Arithmetick*, which contains all the Rules in Vulgar Arithmetick, both in Whole Numbers and Fractions, briefely and plainly contracted with Cases, Rules, & Examples, upon every Rule. By *Edw. Hawes*. This Arithmetick is sold at the Castle in Combe

## *The use of a small portable* Instrument, *for the exact and ready finding of the Houre of the Day, upon the least appearance of the Sun.*

THis Instrument may be made either of Wood, Brass, or Silver, or for a shift, this Paper it self being pasted upon a fine piece of Board, that will not warp, may supply the want of a better; In the Center of this Instrument (which is noted with the Letter A) there is fixed a piece of fine silk, having a small Plummet of Lead at the end thereof, noted with the Letter P, and upon this string, let there be a Bead, or small Pins-head, which may be slipped up and down the string, as occasion shall require, this small Bead or Pins-head is noted with the Letter O; Likewise upon the edge of the Instrument noted with A B you must have a small piece of wier (or a piece of a small pin) about a quarter of an inch in length, which must stick up right upon the edge of the Instrument, this small piece of wier is noted with the Letter S (or if you will, you may have a small hole made in the line A B into which you may stick a pin, when you would know the houre of the day, which will be sufficient. Lastly, between the Lines B C and D E are noted certain small divisions, which are the dayes of the twelve moneths of the year noted with the first Letter of every moneth, as I for *January*, F for *February*, M for *March*, A for *April*, M for *May*, I for *June*, I for *July*, A for *August*, S for *September*, O for *October*, N for *November*, D for *December*. Now the Houre-lines offer themselves to every ones eye, having the numbers, 12. 1. 2. 3. 4. 5. 6. 7. 8. and 11. 10. 9. 8. 7. 6. 5. 4. set at each end of them.

Having thus described the severall parts of the Instrument,




ment, I will now ſhew the uſe thereof which is very eaſie, For firſt (the thrid being fixed faſt in the Center at A) you muſt lay the ſtring upon the day of the moneth (as in the figure the ſtring lieth upon the 7 day of *Aprill*) then ſtaying it there move the bead up or down the ſtring till it lye juſt upon the line of 12 as you ſee in the figure at O, then is your Inſtrument fitted to find the houre any time that day, which you may do after this manner. Tak the Inſtrument in your hand laying the thumbe of your right hand about E, and the thumbe of your left hand about K, turning the left ſide of your body to the Sun, and hold up the Inſtrument till the

Sun

Sunne caſt the Shadow of the ſhort Pinne, or piece of wier in S, ſtreight along the line S M, (neither above nor below it) the ſtring playing at free liberty by the ſide of the Inſtrument, then ſhall the bead falling upon the houre-lines give you the true houre of the day either before or afternoon.

## Example.

If you would find the hour on the 4 of *Aprill* (or any other day) you muſt then lay the thrid upon that day (as in the figure it lyeth upon the 7 of *Aprill*) and keeping it there, move the bead till it lye upon the line of 12, then holding the Inſtrument in your hand, and turning the left ſide of your body to the Sun, hold it up till the ſhadow of the ſmall wier fall juſt upon the line S M, and then, (the thrid and plummet having free liberty to move along the ſide of the Inſtrument) obſerve where the bead reſteth, and there is the hour of the day, as if it fall upon the line noted with 9. 3, then it is either 9 in the morning or 3 in the afternoon; In like manner, if it fall upon the line 10. 2, it is either 10 in the morning or 2 in the afternoon, again, if it fall juſt between the lines of 8 and 3, then it is either half an hour paſt 8 in the morning, or half an hour paſt 3 in the afternoon, and which of theſe hours it is may be eaſily diſtinguiſhed.

Note, that from the 10th. day of March to the 12th. of September, you muſt make uſe of thoſe Houre-liines which are drawn with a full line thus ——— But from the 12th. of September to the 10th. of March, you muſt make uſe of thoſe Houre-lines which are pricked thus ....., Let thus much ſuffice concerning the uſe of this Inſtrument.

*Uſus optimus magiſter.*

# *The face of the yeare unmasked,*

## OR,

## *The severall Columnes in each moneth explained,*

THe first Columne sheweth the day of the Moneth the second sheweth the day of the weeke, ☉ being Dominicall or Sunday Letter, the third containeth the fixed and moveable Feasts and Terms. The fourth sheweth the Signe and degree in which the Moon is every day at noon. In the fifth is the Longitude or place of the Sun every day at noon, in Signes, degrees, and minutes. The sixth sheweth the houre and minute of the Suns rising, every day in the year by help of which you may finde his setting, together with the length of the day and night, for if you double the houres and minutes of the Suns rising the sum thereof is the length of the night; and if you substract the houres and minutes of the Suns rising from 12 houres, the remainder is the time of Sun set, and againe, if you double the houres and minutes of Sun set, the sum thereof is the length of the day.

### Example.

On the first of January, the Sun riseth at 8 of the clocke which being doubled is 16 houres for the length of the night; againe, 8 houres being taken from 12 houres, there remains 4 houres for the time of Sun setting, which 4 houres being doubled gives 8 houres for the length of the day.

In the last Columne are placed the Lunar Aspects, or the Aspects which the Planets make with the Moon, and also between themselves.

In the top of the second page of each Moneth is a Table of the Longitude or places of the Planets for every fifth day at noon, by which their places for any of the other days may neerly be found by help of the part proportionall, which I have shewed how to performe elsewhere.

In the left page you have the time of high water at London-Bridge.

Last quater the 4 day, 15 min. past 8 at night.
New moon the 11 day, 9 min. past 1 afternoon.
First quarter the 18 day, 28 min. past 9 in the morn.
Full moon the 26 day, 56 min. past 3 afternoon.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | a | Newyear.da. | vir. | 12 | 21 | 23 | 8 00 | ☌ ♄ ☾ | 8 a. |
| 2 | b | | | 25 | 22 | 24 | 7 59 | ☿ | in Apog. |
| 3 | c | Enoch | libr. | 7 | 23 | 26 | 7 58 | ☌ ♂ ☾ | 11 p. |
| 4 | d | Mathus | | 20 | 24 | 27 | 7 57 | ☍ ☉ ☿ | at noon |
| 5 | e | Simeon | scor. | 3 | 25 | 28 | 7 55 | ☿ | Occidentall |
| 6 | f | Twelfday | | 17 | 26 | 30 | 7 54 | ☌ ☿ ☾ | at midni. |
| 7 | g | Julian | sag. | 1 | 27 | 31 | 7 53 | ☍ ♃ ☾ | 5 p. |
| 8 | a | Severine B. | | 15 | 28 | 32 | 7 52 | ☌ ♂ ☾ | 11 a. |
| 9 | b | | capr. | 0 | 29 | 33 | 7 50 | ☌ ♃ ☿ | at noon |
| 10 | c | Terra in ☽ | | 16 | 0♒ | 34 | 7 49 | ☾ | Perig. |
| 11 | d | Atlas | aqua. | 0 | 1 | 35 | 7 48 | ☍ ☿ ☾ | 2 p. |
| 12 | e | 1 Sund. aft. Epi. | | 15 | 2 | 36 | 7 46 | | |
| 13 | f | | pisc. | 1 | 3 | 37 | 7 44 | ☍ ♀ ☾ | 4 p. |
| 14 | g | Felix | | 15 | 4 | 38 | 7 42 | ☌ ☉ ♃ | 6 p. |
| 15 | a | | | 29 | 5 | 39 | 7 41 | △ ♃ ☾ | 9 p. |
| 16 | b | Marcellus | aries | 13 | 6 | 40 | 7 40 | ☍ ☿ ☾ | 5 a. |
| 17 | c | | | 26 | 7 | 42 | 7 38 | ☾ | ☊ |
| 18 | d | Prisca | taur. | 8 | 8 | 42 | 7 37 | □ ☿ ☾ | 11 p. |
| 19 | e | 2 Sund. aft. Ep. | | 21 | 9 | 43 | 7 35 | □ ♃ ♀ | at noon |
| 20 | f | | gem. | 3 | 10 | 44 | 7 33 | ☍ ♃ ☾ | 5 p. |
| 21 | g | | | 15 | 11 | 45 | 7 32 | △ ♂ ☾ | 6 p. |
| 22 | a | Vincent | | 27 | 12 | 46 | 7 30 | △ ♀ ☾ | 10 p. |
| 23 | b | Term begins | canc. | 9 | 13 | 47 | 7 28 | ☍ ♄ ☾ | at midni. |
| 24 | c | Timothy | | 20 | 14 | 48 | 7 27 | ☾ | Apog. |
| 25 | d | Conver Paul | leo | 2 | 15 | 49 | 7 25 | △ ♃ ☾ | 7 |
| 26 | e | 3 Sund. aft. Ep. | | 15 | 16 | 50 | 7 23 | ☌ ♂ ☾ | 9 p. |
| 27 | f | | | 27 | 17 | 50 | 7 21 | ☍ ♀ ☿ | at noon |
| 28 | g | Agnes | vir. | 9 | 18 | 51 | 7 19 | ☾ ☉ ♃ | |
| 29 | a | | | 22 | 19 | 52 | 7 17 | △ ☉ ♂ | 3 p. |
| 30 | b | Adelgnadne | libr. | 4 | 20 | 53 | 7 15 | ☌ ♃ ☾ | 5 p. |
| 31 | c | Victor | | 17 | 21 | 53 | 7 13 | ☍ ♂ ☾ | 6 p. |

January.

The Longitude of the Planets.

| | ♄ | | ♃ | | ♂ | | ☌ ☿ | | ♀ | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | ♋ 37 | 2 | ♐ 33 | 12 | ♍ 14 | 0 | ♓ 33 | 15 | ♑ 30 |
| 5 | 10 | 18 | 3 | 19 | 13 | 40 | 2 | 9 | 21 | 59 |
| 10 | 9 | 55 | 4 | 9 | 15 | 20 | 3 | R 26 | 00 | ♒ 18 |
| 15 | 9 | 33 | 4 | 59 | 16 | 59 | 3 | 39 | 10 | 38 |
| 20 | 9 | 12 | 5 | 47 | 18 | 7 | 2 | 57 | 6 | 3 |
| 25 | 8 | 53 | 6 | 28 | 19 | 13 | 1 | 9 | 26 | 36 |

| | | |
|---|---|---|
| 1 | 6 | 12 |
| 2 | 7 | 00 |
| 3 | 7 | 48 |
| 4 | 8 | 36 |
| 5 | 9 | 24 |
| 6 | 10 | 12 |
| 7 | 11 | 00 |
| 8 | 11 | 48 |
| 9 | 12 | 36 |
| 10 | 1 | 24 |
| 11 | 3 | 00 |
| 12 | 3 | 48 |
| 13 | 4 | 36 |
| 14 | 5 | 24 |
| 15 | 6 | 12 |
| 16 | 7 | 00 |
| 17 | 7 | 48 |
| 18 | 8 | 36 |
| 19 | 9 | 24 |
| 20 | 10 | 12 |
| 21 | 11 | 00 |
| 22 | 11 | 48 |
| 23 | 12 | 36 |
| 24 | 1 | 24 |
| 25 | 2 | 12 |
| 26 | 3 | 00 |
| 27 | 3 | 48 |
| 28 | 4 | 36 |
| 29 | 5 | 24 |
| 30 | 6 | 12 |
| 31 | 7 | 00 |

High water at *London*-Bridge.

Last quater the 3 day, 10 min. past 8 in the morn.
New moon the 9 dny, 31 min. past 11 at night
First quarter the 17 day, 38 min. past 5 in the morn.
Full moon the 25 day, 50 min. past 9 in the morn.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | D | | scor. | 0 | 22 | ♒ | 5 | 47 | 12 | ☌☿ |
| 2 | E | Purific. Ma. | | 13 | 23 | | 5 | 47 | 10 | △☿☾ 5 a. |
| 3 | F | | | 27 | 24 | | 5 | 57 | 8 | |
| 4 | G | Gilbert | sag. | 10 | 25 | | 5 | 67 | 6 | ☌☉☿ 4 a. |
| 5 | A | Agathie | | 25 | 26 | | 5 | 67 | 4 | |
| 6 | B | Angle Bp. | capr. | 9 | 27 | | 5 | 77 | 3 | ☿ in Perig. Epi. |
| 7 | C | | | 24 | 28 | | 5 | 77 | 1 | ☾ Perig. ☿ Or. |
| 8 | D | Paul Bp. | aqua. | 9 | 29 | | 5 | 86 | 59 | |
| 9 | E | Shrove Sun. | | 24 | 0 | ♓ | 5 | 86 | 57 | ☌☿☾ 9 a. |
| 10 | F | Scholast | pisc. | 9 | 1 | | 5 | 96 | 55 | □♃☾ 11 a. |
| 11 | G | Shrove Tue. | | 23 | 2 | | 5 | 96 | 53 | ☌☿☾ 6 a. |
| 12 | A | Temp ends | aries | 7 | 3 | | 5 | 96 | 51 | |
| 13 | B | | | 21 | 5 | | 0 | 6 | 49 | ☾☊ |
| 14 | C | Valentine | taur. | 4 | 6 | | 0 | 6 | 47 | ✶☌☾ 6 p. |
| 15 | D | | | 17 | 7 | | 0 | 6 | 45 | |
| 16 | E | 1 Sund in Le. | | 29 | 8 | | 0 | 6 | 43 | △☉♄ 1 p. |
| 17 | F | | gem. | 12 | 9 | | 1 | 6 | 41 | □☉♃ 3 p. |
| 18 | G | Simeon | | 24 | 10 | | 1 | 6 | 39 | |
| 19 | A | Sabine | canc. | 5 | 11 | | 1 | 6 | 37 | ☌♄☾ 4 p. |
| 20 | B | Wildred | | 17 | 12 | | 1 | 6 | 35 | △☿☾ 3 p. |
| 21 | C | | | 29 | 13 | | 1 | 6 | 33 | ☾ Apog. SS☿☿ |
| 22 | D | Peters Chair | leo | 11 | 14 | | 1 | 6 | 31 | ☌☿☾ at midn. |
| 23 | E | 2 Sund. in Le. | | 23 | 15 | | 1 | 6 | 29 | |
| 24 | F | Matthias | virg. | 6 | 16 | | 1 | 6 | 27 | ☌☉☿ 2 a. |
| 25 | G | Wexeron | | 18 | 17 | | 1 | 6 | 25 | ☿ Orientall |
| 26 | A | | libr. | 1 | 18 | | 1 | 6 | 23 | □♄☾ at midn. |
| 27 | B | Augustine | | 14 | 19 | | 0 | 6 | 21 | ☿ in Perig. Epi. |
| 28 | C | Tzunchfield | | 27 | 20 | | 0 | 6 | 19 | ☾☊ |

## February.

The Longitude of the Planets.

| | ♄ | | ♃ | | ♂ | | ♀ | | ☿ | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8 | ♋ 32 | 7 | ♌ 22 | 20 | ♎ 26 | 27 | ♏ 17 | 8 | ♓ 37 |
| 5 | 8 | 21 | 7 | 49 | 20 | 53 | 24 | 48 | 14 | 31 |
| 10 | 8 | 12 | 8 | 24 | 21 | 11 | 21 | 54 | 19 | 42 |
| 15 | 8 | 3 | 8 | 55 | 21 | 12 | 19 | 30 | 21 | R 15 |
| 20 | 7 | 56 | 9 | 18 | 20 | 54 | 19 | 6 | 18 | 57 |
| 25 | 7 | 54 | 9 | 38 | 20 | 19 | 17 | D 44 | 14 | 15 |

High water at *London* Bridge.

| | | |
|---|---|---|
| 1 | 7 | 48 |
| 2 | 8 | 36 |
| 3 | 9 | 24 |
| 4 | 10 | 12 |
| 5 | 11 | 00 |
| 6 | 11 | 48 |
| 7 | 12 | 36 |
| 8 | 1 | 24 |
| 9 | 2 | 12 |
| 10 | 3 | 00 |
| 11 | 3 | 48 |
| 12 | 4 | 36 |
| 13 | 5 | 24 |
| 14 | 6 | 12 |
| 15 | 7 | 00 |
| 16 | 7 | 48 |
| 17 | 8 | 36 |
| 18 | 9 | 24 |
| 19 | 10 | 12 |
| 20 | 11 | 00 |
| 21 | 11 | 48 |
| 22 | 12 | 36 |
| 23 | 1 | 24 |
| 24 | 2 | 12 |
| 25 | 3 | 00 |
| 26 | 3 | 48 |
| 27 | 4 | 36 |
| 28 | 5 | 24 |

Last quarter the 4 day, 53 min. past 4 afternoon.
New moon the 11 day, 19 min. past 10 beforenoon.
First quarter the 19 day, 5 min. before 1 in the morn.
Full moon the 26 day, 22 min. past 11 at night.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | d | | scor. | 10 | 20 ♈ | 00 | 6 | 17 | △☿☾ at noon |
| 2 | e | 3 Sund. in Le. | | 24 | 21 | 00 | 6 | 15 | |
| 3 | f | | sag. | 7 | 22 | 59 | 6 | 13 | ☌♃☾ 4 p. |
| 4 | g | | | 21 | 23 | 59 | 6 | 11 | △♂☿ 5 p. |
| 5 | a | Enſebius | capr. | 5 | 24 | 59 | 6 | 9 | △♄☿ 5 p. |
| 6 | b | | | 19 | 25 | 58 | 6 | 7 | ☾ Perig. |
| 7 | c | Perpetues | aqua. | 4 | 26 | 57 | 6 | 5 | ✶♃☾ 10 p. |
| 8 | d | Felix Mart. | | 18 | 27 | 1 | 5 | 3 | ☌☿☾ 3 p. |
| 9 | e | 4 Sund. in Len. | piſc. | 3 | 27 | 56 | 5 | 1 | ☌☿☾ 7 p. |
| 10 | f | | | 17 | 29 | 56 | 5 | 0 | |
| 11 | g | Tetra in ♎ | aries | 2 | ♉ | 55 | 5 | 58 | □♄☾ 10 p. |
| 12 | a | | | 16 | 1 | 54 | 5 | 56 | ☌☌☾ 1 p. |
| 13 | b | | | 29 | 2 | 53 | 5 | 54 | ☾♋ |
| 14 | c | Candide | taur. | 12 | 3 | 53 | 5 | 52 | |
| 15 | d | Longine | | 25 | 4 | 52 | 5 | 50 | □☿☾ 9 a. |
| 16 | e | 5 Sund. in Len. | gem. | 8 | 5 | 51 | 5 | 47 | |
| 17 | f | | | 20 | 6 | 50 | 5 | 45 | □♃☿ 1 p. |
| 18 | g | | canc. | 2 | 7 | 49 | 5 | 43 | □☉☿ 1 p. |
| 19 | a | Joſeph Mart | | 14 | 8 | 49 | 5 | 41 | ☌♄☾ 1 a. |
| 20 | b | | | 26 | 9 | 47 | 5 | 39 | ☾ Apog. |
| 21 | c | Benedict | leo | 7 | 10 | 47 | 5 | 37 | ✶♂☾ at midn. |
| 22 | d | | | 19 | 11 | 46 | 5 | 35 | |
| 23 | e | Palm Sund. | virg. | 2 | 12 | 44 | 5 | 33 | ☌☉♂ 11 a. |
| 24 | f | | | 14 | 13 | 43 | 5 | 31 | ♂ Occidentall |
| 25 | g | Annunc. Ma. | | 27 | 14 | 42 | 5 | 30 | |
| 26 | a | Caſſa: | libr. | 10 | 15 | 41 | 5 | 28 | ☌♂☾ 3 p. |
| 27 | b | | | 23 | 16 | 40 | 5 | 26 | |
| 28 | c | | ſcor. | 6 | 17 | 39 | 5 | 24 | △☿☾ 5 a. |
| 29 | d | | | 20 | 18 | 37 | 5 | 23 | △☿☾ 2 p. |
| 30 | e | Eaſter day | sag. | 4 | 19 | 36 | 5 | 21 | ✶♃♂ 8 p. |
| 31 | f | | | 18 | 20 | | 5 | 18 | □☿☾ 11 p. |

March.

The Longitude of the Planets.

| | ♄ | ♃ | ♂ | ♀ | ☿ |
|---|---|---|---|---|---|
| 1 | 7♑55 | 9♐51 | 19♎36 | 18♒ 9 | 10♓33 |
| 5 | 7 56 | 9 59 | 18 40 | 19 11 | 8 4 |
| 10 | 8 00 | 10 9 | 17 16 | 21 5 | 7 D15 |
| 15 | 8 8 | 10 11 | 15 37 | 23 40 | 8 48 |
| 20 | 8 19 | 10 12 | 13 48 | 26 52 | 12 10 |
| 25 | 8 32 | 10 7 | 11 55 | 00♓29 | 16 57 |

| | | |
|---|---|---|
| 1 | 6 | 12 |
| 2 | 7 | 00 |
| 3 | 7 | 48 |
| 4 | 8 | 36 |
| 5 | 9 | 24 |
| 6 | 10 | 12 |
| 7 | 11 | 00 |
| 8 | 11 | 48 |
| 9 | 12 | 36 |
| 10 | 1 | 24 |
| 11 | 2 | 12 |
| 12 | 3 | 00 |
| 13 | 3 | 48 |
| 14 | 4 | 36 |
| 15 | 5 | 24 |
| 16 | 6 | 12 |
| 17 | 7 | 00 |
| 18 | 7 | 48 |
| 19 | 8 | 36 |
| 20 | 9 | 24 |
| 21 | 10 | 12 |
| 22 | 11 | 00 |
| 23 | 11 | 48 |
| 24 | 12 | 36 |
| 25 | 1 | 24 |
| 26 | 2 | 12 |
| 27 | 3 | 00 |
| 28 | 3 | 48 |
| 29 | 4 | 36 |
| 30 | 5 | 24 |
| 31 | 6 | 12 |

High water at *London*-Bridge.

# Aprill hath xxx. dayes.

Last quarter the 3 day, 35 min. before 1 in the morning.
New moon the 9 day, 9 min. past 10 at night.
First quarter the 17 day, 45 min. past 7 at night.
Full moon the 25 day, at 11 beforenoon.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | g | | capr. | 2 | 21 | ♈31 | 5 | 16 | □♂☾ at midn. |
| 2 | a | Simplic. | | 16 | 22 | 29 | 5 | 14 | ☾ Perig. |
| 3 | b | Richard | | 29 | 23 | 28 | 5 | 12 | |
| 4 | c | | aqua. | 14 | 24 | 26 | 5 | 10 | △♄♀ 8 p. |
| 5 | d | Vincent | | 29 | 25 | 25 | 5 | 8 | □♃☾ 1 p. |
| 6 | e | 1 Sun. aft. East. | pisc. | 13 | 26 | 23 | 5 | 6 | ☌♀☾ 8 a. |
| 7 | f | | | 27 | 27 | 22 | 5 | 4 | |
| 8 | g | | aries | 10 | 28 | 20 | 5 | 3 | ☌☿☾ 2 a. |
| 9 | a | 7 Virgins | | 24 | 29 | 19 | 5 | 1 | ☉ Eclipsed. |
| 10 | b | Terra in m | taur. | 7 | 0 | ♉17 | 4 | 59 | △♃☿ 11 p. |
| 11 | c | | | 20 | 1 | 15 | 4 | 57 | |
| 12 | d | Gregnr | gem. | 3 | 2 | 13 | 4 | 55 | ☍♃☾ 11 p. |
| 13 | e | 2 Sun. aft. East. | | 16 | 3 | 11 | 4 | 53 | □♀☾ 3 p. |
| 14 | f | | | 28 | 4 | 10 | 4 | 51 | |
| 15 | g | | canc. | 10 | 5 | 8 | 4 | 50 | |
| 16 | a | Term begins | | 22 | 6 | 6 | 4 | 48 | ☾ Apog. |
| 17 | b | Anicete | leo | 4 | 7 | 4 | 4 | 49 | △♃☾ 10 p. |
| 18 | c | | | 15 | 8 | 2 | 4 | 44 | |
| 19 | d | Elutherins | | 27 | 9 | 00 | 4 | 42 | |
| 20 | e | 3 Sun. aft. East. | virg. | 9 | 9 | 59 | 4 | 40 | |
| 21 | f | Benedict | | 22 | 10 | 57 | 4 | 39 | ☌♀☾ 6 p. |
| 22 | g | | libr. | 5 | 11 | 55 | 4 | 38 | ☌♂☾ 10 a. |
| 23 | a | St. George | | 18 | 12 | 53 | 4 | 36 | ☾☋ Bq. ♃☿ |
| 24 | b | | scor. | 1 | 13 | 50 | 4 | 34 | ☌☿☾ 5 p. |
| 25 | c | St. Marke | | 15 | 14 | 48 | 4 | 32 | |
| 26 | d | Clere | | 29 | 15 | 45 | 4 | 30 | |
| 27 | e | 4 Sun. aft. East. | sag. | 14 | 16 | 44 | 4 | 29 | ☌♃☾ 5 a. |
| 28 | f | | | 28 | 17 | 42 | 4 | 28 | |
| 29 | g | Peter Mar. | capr. | 13 | 18 | 40 | 4 | 26 | ☌♄☾ 9 a. |
| 30 | a | Erkenwald | | 27 | 19 | 38 | 4 | 24 | ☿ Occidental. |

## Aprill.

The Longitude of the Planets.

| | ♄ | ♃ | ♂ | ♀ | ☿ |
|---|---|---|---|---|---|
| 1 | 8♑54 | 9♐44 | 9♎15 | 6♓11 | 25♓ 1 |
| 5 | 9 7 | 9 32 | 7 51 | 9 44 | 0♈54 |
| 10 | 9 27 | 6 17 | 6 17 | 14 15 | 8 29 |
| 15 | 9 51 | 8 53 | 4 58 | 19 2 | 16 55 |
| 20 | 10 15 | 8 27 | 3 53 | 23 59 | 26 2 |
| 25 | 10 42 | 7 56 | 3 12 | 29 3 | 5♉53 |

| | | |
|---|---|---|
| 1 | 7 | 00 |
| 2 | 8 | 36 |
| 3 | 9 | 24 |
| 4 | 10 | 12 |
| 5 | 11 | 00 |
| 6 | 11 | 48 |
| 7 | 12 | 36 |
| 8 | 1 | 24 |
| 9 | 2 | 12 |
| 10 | 3 | 00 |
| 11 | 3 | 48 |
| 12 | 4 | 36 |
| 13 | 5 | 24 |
| 14 | 6 | 12 |
| 15 | 7 | 00 |
| 16 | 7 | 48 |
| 17 | 8 | 36 |
| 18 | 9 | 24 |
| 19 | 10 | 12 |
| 20 | 11 | 00 |
| 21 | 11 | 48 |
| 22 | 12 | 36 |
| 23 | 1 | 24 |
| 24 | 2 | 12 |
| 25 | 3 | 00 |
| 26 | 3 | 48 |
| 27 | 4 | 36 |
| 28 | 5 | 24 |
| 29 | 6 | 12 |
| 30 | 7 | 00 |

High water at *London*-Bridge.

Last quarter the 2 day, 48 min. past 4 in the morn.
New moon the 9 day, 54 min. past 10 before noon.
First quarter the 17 day, at 1 afternoon
Full moon the 23 day, at 8 at night.
Last quarter the 30 day, 43 min. past 10 beforenoon.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | b | Phil. & Jacob | aqua. | 11 | 20 | 38 | 4 | 23 | ☿ Occidentall. |
| 2 | c | Athanatius | | 25 | 21 | 36 | 4 | 21 | |
| 3 | d | Invent Cr. | pisc. | 9 | 22 | 34 | 4 | 20 | ☌ ☉ ☿ 5 a. |
| 4 | e | Rogati. Sñ. | | 23 | 23 | 32 | 4 | 18 | |
| 5 | f | | aries | 6 | 24 | 29 | 4 | 17 | ☌ ♀ ☾ 6 p. |
| 6 | g | John Bozlat. | | 20 | 25 | 27 | 4 | 16 | ☾ ☊ |
| 7 | a | King Mart. | taur. | 3 | 26 | 24 | 4 | 14 | □ ♄ ♀ 6 p. |
| 8 | b | Assention day | | 16 | 27 | 22 | 4 | 12 | |
| 9 | c | Gozdian | | 29 | 28 | 19 | 4 | 11 | ☌ ♃ ☿ 4 p. |
| 10 | d | | gem. | 11 | 29 | 17 | 4 | 10 | ☌ ☿ ☾ 4 a. |
| 11 | e | Terra in ♈ | | 24 | 0 ♊ | 14 | 4 | 9 | |
| 12 | f | Term ends | canc. | 6 | 1 | 12 | 4 | 8 | |
| 13 | g | Serbatius | | 18 | 2 | 9 | 4 | 7 | ☌ ♄ ☾ 11 a. |
| 14 | a | Budoz | | 29 | 3 | 6 | 4 | 5 | ☿ Perig. |
| 15 | b | Ilodoze | leo | 11 | 4 | 4 | 4 | 4 | |
| 16 | c | Bernard | | 23 | 5 | 59 | 4 | 2 | ☌ ☉ ☿ 11 p. |
| 17 | d | | virg. | 5 | 6 | 56 | 4 | 1 | |
| 18 | e | Whitsunda. | | 17 | 7 | 53 | 4 | 0 | ♃ Occidentall |
| 19 | f | | | 29 | 8 | 51 | 3 | 59 | ☌ ♂ ☾ 8 p. |
| 20 | g | | libr. | 13 | 9 | 48 | 3 | 58 | |
| 21 | a | | | 26 | 10 | 45 | 3 | 57 | ☾ ♀ ☾ 2 p. |
| 22 | b | | scor. | 9 | 11 | 43 | 3 | 56 | △ ♄ ☾ 7 a. |
| 23 | c | | | 23 | 12 | 40 | 3 | 55 | |
| 24 | d | Serbilue | sag. | 8 | 13 | 37 | 3 | 54 | ☌ ♃ ☾ 3 a. |
| 25 | e | Trinity Sñ. | | 23 | 14 | 34 | 3 | 54 | ☾ Perig. |
| 26 | f | | capr. | 8 | 15 | 31 | 3 | 53 | |
| 27 | g | | | 22 | 16 | 29 | 3 | 52 | |
| 28 | a | Corons | aqua. | 7 | 17 | 26 | 3 | 52 | |
| 29 | b | | | 22 | 18 | 23 | 3 | 51 | ☿ in Apog. |
| 30 | c | Term begins | pisc. | 6 | 19 | 20 | 3 | 51 | |
| 31 | d | Mering | | 20 | 20 | 17 | 3 | 50 | |

May.

The Longitude of the Planets.

| | ♄ | ♃ | ♂ | ♀ | ☿ |
|---|---|---|---|---|---|
| 1 | 11♑17 | 7♐17 | 2♎47 | 5♈17 | 18♉34 |
| 5 | 11 41 | 6 48 | 2☽45 | 9 31 | 27 20 |
| 10 | 12 11 | 6 10 | 3 3 | 14 55 | 8♊10 |
| 15 | 12 45 | 5 36 | 3 37 | 20 22 | 18 21 |
| 20 | 13 19 | 5 2 | 4 29 | 25 54 | 27 32 |
| 25 | 13 54 | 4 17 | 5 34 | 1♉27 | 5♑31 |

| | | | |
|---|---|---|---|
| 1 | 8 | 48 | High water at *London* Bridge. |
| 2 | 9 | 24 | |
| 3 | 10 | 12 | |
| 4 | 11 | 00 | |
| 5 | 11 | 48 | |
| 6 | 12 | 36 | |
| 7 | 1 | 24 | |
| 8 | 2 | 12 | |
| 9 | 3 | 00 | |
| 10 | 3 | 48 | |
| 11 | 4 | 36 | |
| 12 | 5 | 24 | |
| 13 | 6 | 12 | |
| 14 | 7 | 00 | |
| 15 | 8 | 48 | |
| 16 | 9 | 24 | |
| 17 | 10 | 12 | |
| 18 | 11 | 00 | |
| 19 | 11 | 48 | |
| 20 | 12 | 36 | |
| 21 | 1 | 24 | |
| 22 | 2 | 12 | |
| 23 | 3 | 00 | |
| 24 | 3 | 48 | |
| 25 | 4 | 36 | |
| 26 | 5 | 24 | |
| 27 | 6 | 12 | |
| 28 | 7 | 00 | |
| 29 | 8 | 48 | |
| 30 | 9 | 36 | |
| 31 | 10 | 24 | |

# June hath xxx. dayes.

New Moon the 8 day, 10 min. before 1 in the morning.
First quarter the 16 day, 3 min. before 4 in the morning.
Full Moon the 23 day, 23 min. past 3 in the morning.
Last quarter the 29 day, 25 min. past 6 at night.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | ☉ | 1 Sund. aft. Tr. | aries | 3 | 21 | ♍ 11 | 3 | 50 | ♂ ☌ ☾ 11 p. |
| 2 | f | | | | 22 | 12 | 3 | 49 | ☾ ☊ |
| 3 | g | | | 29 | 23 | 9 | 3 | 49 | |
| 4 | a | Petrocie | taur. | 13 | 24 | 6 | 3 | 49 | ✶ ☿ ☾ 11 p. |
| 5 | b | Boniface | | 25 | 25 | 3 | 3 | 49 | |
| 6 | c | William | gem. | 8 | 26 | 0 | 3 | 49 | ✶ ♄ ♀ 8 p. |
| 7 | d | Wolstan | | 20 | 26 | 57 | 3 | 48 | |
| 8 | ☉ | 2 Sund. aft. Tr. | canc. | 2 | 27 | 54 | 3 | 48 | |
| 9 | f | | | 14 | 28 | 51 | 3 | 48 | |
| 10 | g | Laurence | | 26 | 29 | 48 | 3 | 48 | ♂ ☿ ☾ 4 a. |
| 11 | a | Longest day | leo | 8 | 0 | ♋ 45 | 3 | 48 | |
| 12 | b | Terra in ♈ | | 20 | 1 | 42 | 3 | 48 | |
| 13 | c | Jackson | virg. | 2 | 2 | 40 | 3 | 48 | |
| 14 | d | | | 14 | 3 | 36 | 3 | 48 | ✶ ♀ ☿ ☾ 8 p. |
| 15 | ☉ | 3 Sund. aft. Tr. | | 26 | 4 | 34 | 3 | 48 | |
| 16 | f | | libr. | 8 | 5 | 31 | 3 | 48 | ♂ ☌ 9 p. |
| 17 | g | | | 21 | 6 | 28 | 3 | 49 | ☽ ♍ |
| 18 | a | Vincula | scor. | 4 | 7 | 25 | 3 | 49 | |
| 19 | b | Wadbridge | | 18 | 8 | 22 | 3 | 49 | |
| 20 | c | | sagit. | 2 | 9 | 19 | 3 | 50 | ♂ ♃ ☾ at noon |
| 21 | d | | | 16 | 10 | 16 | 3 | 50 | |
| 22 | ☉ | 4 Sund. aft. Tr. | capr. | 1 | 11 | 13 | 3 | 51 | |
| 23 | f | | | 16 | 12 | 10 | 3 | 51 | |
| 24 | g | John Baptist | aqua. | 2 | 13 | 7 | 3 | 52 | ☾ perig. |
| 25 | | Transl. of Cle | | 17 | 14 | 4 | 3 | 52 | ☿ perig. |
| 26 | b | Adelph | pisc. | 2 | 15 | 2 | 3 | 53 | |
| 27 | c | | | 16 | 16 | 00 | 3 | 53 | ☿ Orient. |
| 28 | d | | | 29 | 16 | 55 | 3 | 54 | □ ♄ ♂ 2 p. |
| 29 | ☉ | Peter & Paul | aries | 14 | 17 | 58 | 3 | 55 | |
| 30 | f | | | 26 | 18 | 50 | 3 | 56 | ♄ Orientall. |

## June.

The Longitude of the Planets.

| | ♄ | ♃ | ♂ | ♀ | ☿ |
|---|---|---|---|---|---|
| 1 | 14♑43 | 3♐26 | 7♎30 | 9♉21 | 14♑43 |
| 5 | 15 13 | 2 59 | 8 46 | 13 54 | 18 52 |
| 10 | 15 50 | 2 28 | 10 32 | 19 37 | 22 40 |
| 15 | 16 28 | 2 00 | 12 27 | 25 28 | 24 48 |
| 20 | 17 7 | 1 35 | 14 31 | 1♊10 | 25 R 4 |
| 25 | 17 46 | 1 9 | 16 45 | 4 39 | 24 17 |

| | | |
|---|---|---|
| 1 | 10 | 12 |
| 2 | 11 | 00 |
| 3 | 11 | 48 |
| 4 | 12 | 36 |
| 5 | 1 | 24 |
| 6 | 2 | 12 |
| 7 | 3 | 00 |
| 8 | 3 | 48 |
| 9 | 4 | 36 |
| 10 | 5 | 24 |
| 11 | 6 | 12 |
| 12 | 7 | 00 |
| 13 | 7 | 48 |
| 14 | 8 | 36 |
| 15 | 9 | 24 |
| 16 | 10 | 12 |
| 17 | 11 | 00 |
| 18 | 11 | 48 |
| 19 | 12 | 36 |
| 20 | 1 | 24 |
| 21 | 2 | 12 |
| 22 | 3 | 00 |
| 23 | 3 | 48 |
| 24 | 4 | 36 |
| 25 | 5 | 24 |
| 26 | 6 | 12 |
| 27 | 7 | 00 |
| 28 | 7 | 48 |
| 29 | 8 | 36 |
| 30 | 9 | 24 |

High water at *London*-Bridge.

New Moon the 7 day, 9 min. past 3 afternoon.
First quarter 15 day, 23 min. past 4 afternoon.
Full Moon the 22 day, 22 min. past 10 before noon.
Last quarter the 29 day, 49 min. past 4 in the morning.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | g | | taur. | 10 | ♉ | 50 | 3 | 58 | ☌♀☾ | 9 p. |
| 2 | a | Frith | | 22 | 19 | 47 | 3 | 58 | ☌♄☿ | 10 p. |
| 3 | b | | gem. | 5 | 20 | 44 | 3 | 59 | | |
| 4 | c | Ulrick | | 18 | 21 | 41 | 4 | 00 | ☌☿☾ | 1 p. |
| 5 | d | Gregory | | 29 | 22 | 38 | 4 | 1 | ☋♀♄ | |
| 6 | e | 6 Sund. aft. Tr. | canc. | 11 | 23 | 36 | 4 | 2 | | |
| 7 | f | | | 23 | 24 | 33 | 4 | 3 | ☌♄☾ | 4 a. |
| 8 | g | Gzim. dep. | leo | 5 | 25 | 30 | 4 | 5 | | |
| 9 | a | Cyrill | | 17 | 26 | 27 | 4 | 6 | △☌♀ | 8 p. |
| 10 | b | 7 Wrethren | | 29 | 27 | 24 | 4 | 7 | | |
| 11 | c | | virg. | 11 | 28 | 21 | 4 | 9 | | |
| 12 | d | Jason | | 23 | 29 | 18 | 4 | 10 | | |
| 13 | e | Terra in ♎ | libr. | 5 | ♎ | 16 | 4 | 11 | △☉♃ | 4 p. |
| 14 | f | | | 17 | 1 | 13 | 4 | 12 | | |
| 15 | g | Swithine | | 29 | 2 | 10 | 4 | 14 | ☌☌☾ | 6 a. |
| 16 | a | | scor. | 13 | 3 | 7 | 4 | 16 | | |
| 17 | b | Reneime | | 26 | 4 | 4 | 4 | 17 | ☌♃☾ | 7 p. |
| 18 | c | | sag. | 10 | 5 | 2 | 4 | 18 | | |
| 19 | d | | | 24 | 5 | 59 | 4 | 20 | | |
| 20 | e | Dog day. beg. | capr. | 9 | 6 | 57 | 4 | 21 | | |
| 21 | f | | | 25 | 7 | 54 | 4 | 22 | ☾ | Perig. |
| 22 | g | Mary Magd. | aqua | 10 | 8 | 51 | 4 | 24 | □♃☾ | 8 p. |
| 23 | a | Apostn | | 25 | 9 | 49 | 4 | 25 | | |
| 24 | b | Christian | pisc. | 10 | 10 | 46 | 4 | 27 | ☌♄☿ | 8 a. |
| 25 | c | James Apo. | | 25 | 11 | 44 | 4 | 28 | | |
| 26 | d | | aries | 9 | 12 | 41 | 4 | 30 | | |
| 27 | e | 9 Sund. aft. Tr. | | 22 | 13 | 39 | 4 | 31 | ☾☊ | |
| 28 | f | | taur. | 6 | 14 | 36 | 4 | 32 | | |
| 29 | g | Felix & Fel. | | 19 | 15 | 34 | 4 | 33 | ✶♄☾ | 6 p. |
| 30 | a | Abdon | gem. | 2 | 16 | 31 | 4 | 35 | | |
| 31 | b | Wenbrick. | | 14 | 17 | 29 | 4 | 37 | | |

July.

The Longitude of the Planets.

| | ♄ | ♃ | ♂ | ♀ | ☿ |
|---|---|---|---|---|---|
| 1 | 18♑34 | 00♐48 | 19♎33 | 14♍ 1 | 19♑54 |
| 5 | 19 5 | 00 37 | 21 34 | 18 44 | 17 25 |
| 10 | 19 43 | 00 25 | 24 8 | 24 37 | 15 D26 |
| 15 | 20 24 | 00 21 | 26 48 | 00♑33 | 15 23 |
| 20 | 21 2 | 00D 21 | 29 3 | 6 29 | 17 56 |
| 52 | 21 40 | 00 28 | 2♏25 | 12 28 | 22 59 |

| | | |
|---|---|---|
| 1 | 10 | 12 |
| 2 | 11 | 00 |
| 3 | 11 | 48 |
| 4 | 12 | 36 |
| 5 | 1 | 24 |
| 6 | 2 | 12 |
| 7 | 3 | 00 |
| 8 | 3 | 48 |
| 9 | 4 | 36 |
| 10 | 5 | 24 |
| 11 | 6 | 12 |
| 12 | 7 | 00 |
| 13 | 7 | 48 |
| 14 | 8 | 36 |
| 15 | 9 | 24 |
| 16 | 10 | 12 |
| 17 | 11 | 00 |
| 18 | 11 | 48 |
| 19 | 12 | 36 |
| 20 | 1 | 24 |
| 21 | 2 | 12 |
| 22 | 3 | 00 |
| 23 | 3 | 48 |
| 24 | 4 | 36 |
| 25 | 5 | 24 |
| 26 | 6 | 12 |
| 27 | 7 | 00 |
| 28 | 7 | 48 |
| 29 | 8 | 36 |
| 30 | 9 | 24 |
| 31 | 10 | 12 |

High water at *London*-Bridge.

# Auguſt hath xxxi. dayes.

New Moon the 6 day, 28 min. paſt 6 in the morning.
Firſt quarter the 14 day, 39 min. paſt 2 in the morning.
Full Moon the 20 day, 33 min. paſt 5 at night.
Laſt quarter the 27 day, 21 min. paſt 6 at night,

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | c | Lammas day | gem. | 26 | 18 | ♌ 26 | 4 | 40 | |
| 2 | d | | | 8 | 19 | 24 | 4 | 42 | ☌ ♄ ☿ 11 p. |
| 3 | e | 10 Sund. af. Tr. | | 20 | 20 | 21 | 4 | 44 | ☌ ♄ ☾ 6 p. |
| 4 | f | | leo | 2 | 21 | 19 | 4 | 45 | ☾ Apog. |
| 5 | g | Gowries Cō. | | 14 | 22 | 17 | 4 | 47 | ☌ ☿ ☾ 6 a. |
| 6 | a | Sixtus | | 26 | 23 | 15 | 4 | 48 | |
| 7 | b | | virg. | 8 | 24 | 12 | 4 | 49 | ✶ ☌ ☾ 4 p. |
| 8 | c | | | 20 | 25 | 10 | 4 | 51 | |
| 9 | d | Romanus | libr. | 2 | 26 | 8 | 4 | 53 | △ ♃ ♀ 11 p. |
| 10 | e | 11 Sund. af. Tr. | | 14 | 27 | 5 | 4 | 56 | ☾ ♍ |
| 11 | f | | | 27 | 28 | 3 | 4 | 57 | |
| 12 | g | Clota | scor. | 9 | 29 | 1 | 4 | 59 | ☌ ☌ ☾ 7 p. |
| 13 | a | Eusebius | | 22 | 29 | 59 | 5 | 1 | |
| 14 | b | Terra in ♓ | sag. | 6 | ♏ | 56 | 5 | 3 | ☌ ♃ ☾ 4 a. |
| 15 | c | | | 19 | 1 | 55 | 5 | 5 | |
| 16 | d | Rochus | capr. | 4 | 2 | 53 | 5 | 7 | |
| 17 | e | 12 Sund. af. Tr. | | 18 | 3 | 51 | 5 | 9 | ☿ Occident. |
| 18 | f | | aqua. | 3 | ♑ 4 | 49 | 5 | 10 | |
| 19 | g | Sebald | | 18 | 5 | 47 | 5 | 12 | ☾ Perig. |
| 20 | a | Lewis | pisc. | 3 | 6 | 45 | 5 | 14 | |
| 21 | b | | | 18 | 7 | 43 | 5 | 16 | △ ♄ ☾ 10 p. |
| 22 | c | Lodobicus | aries | 3 | 8 | 41 | 5 | 18 | ☿ Apog. |
| 23 | d | Zacheus | | 17 | 9 | 40 | 5 | 20 | |
| 24 | e | Barthol. Ap. | taur. | 1 | 10 | 38 | 5 | 22 | |
| 25 | f | | | 15 | 11 | 36 | 5 | 24 | SS ♀ ☿ |
| 26 | g | Seberine | | 28 | 12 | 34 | 5 | 26 | |
| 27 | a | | gem. | 10 | 13 | 33 | 5 | 28 | ✶ ☌ ☿ 2 a. |
| 28 | b | Dog day. end | | 23 | 14 | 31 | 5 | 30 | |
| 29 | c | | canc. | 2 | 15 | 29 | 5 | 32 | SS ♄ ♀ |
| 30 | d | Martine | | 16 | 16 | 28 | 5 | 34 | |
| 31 | e | 14 Sund. af. Tr. | | 29 | 17 | 26 | 5 | 36 | ☌ ♄ ☾ 6 a. |

| Auguſt. | | ♄ | | ♃ | | ♂ | | ♀ | | ☿ | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 22 | ♑ 31 | 0 | ♐ 41 | 6 | ♍ 35 | 20 | ♑ 57 | 3 | ♌ 47 |
| | 5 | 22 | 59 | 0 | 53 | 8 | 58 | 25 | 47 | 11 | 17 |
| The Longi- | 10 | 23 | 34 | 1 | 10 | 12 | 3 | 1 | ♌ 49 | 21 | 43 |
| tude of the | 15 | 24 | 9 | 1 | 33 | 15 | 11 | 7 | 54 | 1 | ♍ 13 |
| Planets. | 20 | 24 | 41 | 2 | 2 | 18 | 25 | 14 | 1 | 10 | 52 |
| | 25 | 25 | 13 | 2 | 32 | 21 | 41 | 20 | 9 | 20 | 00 |

| | | | |
|---|---|---|---|
| 1 | 11 | 00 | High water at *London* Bridge. |
| 2 | 11 | 48 | |
| 3 | 12 | 36 | |
| 4 | 1 | 24 | |
| 5 | 2 | 12 | |
| 6 | 3 | 00 | |
| 7 | 3 | 48 | |
| 8 | 4 | 36 | |
| 9 | 5 | 24 | |
| 10 | 6 | 12 | |
| 11 | 7 | 00 | |
| 12 | 7 | 48 | |
| 13 | 8 | 36 | |
| 14 | 9 | 24 | |
| 15 | 10 | 12 | |
| 16 | 11 | 00 | |
| 17 | 11 | 48 | |
| 18 | 12 | 36 | |
| 19 | 1 | 24 | |
| 20 | 2 | 12 | |
| 21 | 3 | 00 | |
| 22 | 3 | 48 | |
| 23 | 4 | 36 | |
| 24 | 5 | 24 | |
| 25 | 6 | 12 | |
| 26 | 7 | 00 | |
| 27 | 8 | 48 | |
| 28 | 9 | 24 | |
| 29 | 10 | 12 | |
| 30 | 11 | 00 | |
| 31 | 12 | 36 | |

# September hath xxx. dayes.

New Moon the 4 day, 9 min. past 10 at night.
First quarter the 12 day, 31 min. past 11 before noon.
Full Moon the 19 day, 37 min. past 2 in the morning.
Last quarter the 26 day, 21 min. past 11 before noon.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | f | | leo | 10 | 18 | 25 | 5 | 40 | |
| 2 | g | Veronica | | 22 | 19 | 23 | 5 | 41 | ☾ Apog. |
| 3 | a | Gregory | virg. | 4 | 20 | 22 | 5 | 42 | ☌ ☿ ☾ 5 a. |
| 4 | b | Theodote | | 16 | 21 | 20 | 5 | 44 | |
| 5 | c | Zachary | | 29 | 22 | 19 | 5 | 46 | □ ♃ ☿ 5 g. |
| 6 | d | Bertine | libr. | 11 | 23 | 18 | 5 | 48 | ☌ ☿ ☾ 9 a. |
| 7 | e | 15 Sund. af. Tr. | | 24 | 24 | 16 | 5 | 50 | |
| 8 | f | | scor. | 6 | 25 | 15 | 5 | 51 | |
| 9 | g | Gorgon | | 19 | 26 | 14 | 5 | 54 | ✶ ☉ ♄ at midn. |
| 10 | a | Hosthen | sag. | 2 | 27 | 13 | 5 | 56 | ☌ ♃ ☾ 4 p. |
| 11 | b | | | 16 | 28 | 11 | 5 | 57 | ✶ ☿ ☾ 3 p. |
| 12 | c | Tobias | | 29 | 29 | 10 | 5 | 59 | |
| 13 | d | Ternain ♈ | capr. | 14 | 0 | 9 | 6 | 0 | |
| 14 | e | 16 Sund. af. Tr. | | 28 | 2 | 8 | 6 | 2 | ☌ ♃ ☌ 5 p. |
| 15 | f | | aqua | 12 | 2 | 7 | 6 | 4 | ☾ Perig. |
| 16 | g | Euphem | | 27 | 3 | 6 | 6 | 6 | |
| 17 | a | Lambert | pisc. | 12 | 4 | 5 | 6 | 8 | |
| 18 | b | | | 27 | 5 | 4 | 6 | 10 | □ ♄ ☿ 11 a. |
| 19 | c | Jamary | aries | 11 | 6 | 3 | 6 | 12 | ✶ ☉ ♃ at noon |
| 20 | d | | | 24 | 7 | 2 | 6 | 15 | |
| 21 | e | Matthew | taur. | 9 | 8 | 1 | 6 | 17 | |
| 22 | f | | | 23 | 9 | 1 | 6 | 19 | △ ☿ ☾ 4 p. |
| 23 | g | Indoch | gem. | 6 | 10 | 51 | 6 | 21 | |
| 24 | a | | | 19 | 11 | 59 | 6 | 23 | ✶ ♄ ☿ 11 p. |
| 25 | b | Firmirus | canc. | 1 | 12 | 58 | 6 | 25 | |
| 26 | c | | | 13 | 13 | 57 | 6 | 27 | |
| 27 | d | | | 25 | 14 | 57 | 6 | 29 | ☌ ♄ ☿ 6 p. |
| 28 | e | 18 Sund. af. Tr. | leo | 6 | 15 | 57 | 6 | 31 | |
| 29 | f | Michael Ar. | | 18 | 16 | 56 | 6 | 33 | ✶ ☿ ♂ 6 p. |
| 30 | g | | virg. | 1 | 17 | 59 | 6 | 35 | |

Septemb.

The Longitude of the Planets.

| | ♄ | | ♃ | | ♂ | | ♀ | | ☿ | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 25 | ♋ 55 | 3 | ♐ 21 | 26 | ♍ 23 | 28 | ♌ 45 | 1 | ♎ 59 |
| 5 | 26 | 18 | 3 | 52 | 29 | 6 | 3 | 42 | 8 | 25 |
| 10 | 26 | 44 | 4 | 35 | 2 | ♐ 31 | 9 | 52 | 16 | 4 |
| 15 | 27 | 9 | 5 | 21 | 6 | 1 | 16 | 3 | 23 | 26 |
| 20 | 27 | 30 | 6 | 9 | 9 | 32 | 22 | 17 | 0 | ♏ 7 |
| 25 | 27 | 51 | 6 | 59 | 13 | 6 | 28 | 32 | 6 | 18 |

| | | |
|---|---|---|
| 1 | 1 | 24 |
| 2 | 2 | 12 |
| 3 | 3 | 00 |
| 4 | 3 | 48 |
| 5 | 4 | 36 |
| 6 | 5 | 24 |
| 7 | 6 | 12 |
| 8 | 7 | 00 |
| 9 | 7 | 48 |
| 10 | 8 | 36 |
| 11 | 9 | 24 |
| 12 | 10 | 12 |
| 13 | 11 | 00 |
| 14 | 11 | 48 |
| 15 | 12 | 36 |
| 16 | 1 | 24 |
| 17 | 2 | 12 |
| 18 | 3 | 00 |
| 19 | 3 | 48 |
| 20 | 4 | 36 |
| 21 | 5 | 24 |
| 22 | 6 | 12 |
| 23 | 7 | 00 |
| 24 | 7 | 48 |
| 25 | 8 | 36 |
| 26 | 9 | 24 |
| 27 | 10 | 12 |
| 28 | 11 | 00 |
| 29 | 11 | 48 |
| 30 | 12 | 36 |

High water at *London*-Bridge.

# October hath xxxi. dayes.

New Moon the 4 day, 46 min. past 1 afternoon.
First quarter the 11 day, 14 min. past 6 at night.
Full Moon the 18 day, at 2 afternoon.
Last quarter the 26 day, 22 min. past 7 in the morning.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | a | Remigius | virg. | 13 | 17 | ♎ 56 | 6 | 37 | □ ♂ ☾ 10 p. |
| 2 | b | Leodegar | | 25 | 18 | 56 | 6 | 39 | |
| 3 | c | Candid Mar. | libr. | 7 | 19 | 55 | 6 | 41 | ✶ ♃ ♀ 11 a. |
| 4 | d | | | 20 | 20 | 55 | 6 | 42 | ☉ Eclipsed |
| 5 | e | 19 Sund. af. Tr. | scor. | 3 | 21 | 55 | 6 | 44 | not to be seen |
| 6 | f | | | 16 | 22 | 54 | 6 | 46 | of us. |
| 7 | g | Vergins | | 29 | 23 | 54 | 6 | 48 | |
| 8 | a | Pelagius | sag. | 13 | 24 | 54 | 6 | 50 | ☌ ♃ ☾ 6 a. |
| 9 | b | Dionisius | | 27 | 25 | 54 | 6 | 52 | ☌ ♂ ☾ 6 a. |
| 10 | c | | capr. | 10 | 26 | 54 | 6 | 54 | |
| 11 | d | Cosman | | 24 | 27 | 54 | 6 | 56 | |
| 12 | e | 20 Sund. af. Tr. | aqua. | 8 | 28 | 54 | 6 | 58 | □ ☉ ♄ 6 a. |
| 13 | f | | | 23 | 29 | 54 | 7 | 0 | ☾ Perig. |
| 14 | g | Terra in ♉ | pisc. | 7 | 0 | ♒ 54 | 7 | 2 | |
| 15 | a | Hedwig | | 21 | 1 | 54 | 7 | 4 | |
| 16 | b | Gallus | aries | 6 | 2 | 54 | 7 | 6 | |
| 17 | c | Florence | | 20 | 3 | 54 | 7 | 8 | ☾ ☊ |
| 18 | d | Luke Evang. | taur. | 4 | 4 | 54 | 7 | 10 | |
| 19 | e | 21 Sund. aft. Tr. | | 17 | 5 | 54 | 7 | 11 | ☿ Orient. |
| 20 | f | | gem. | 1 | 6 | 54 | 7 | 13 | ☌ ☉ ☿ |
| 21 | g | Visula Virg. | | 14 | 7 | 55 | 7 | 15 | |
| 22 | a | Mary S. | | 27 | 8 | 55 | 7 | 17 | |
| 23 | b | Term begins | canc. | 9 | 9 | 55 | 7 | 19 | ✶ ♂ ♀ 9 p. |
| 24 | c | | | 21 | 10 | 56 | 7 | 21 | |
| 25 | d | Crispine | leo | 3 | 11 | 56 | 7 | 23 | ☌ ♄ ☾ 4 a. |
| 26 | e | 22 Sund. aft. Tr. | | 15 | 12 | 57 | 7 | 24 | ☾ Apog. |
| 27 | f | | | 27 | 13 | 57 | 7 | 26 | |
| 28 | g | Simon & Jud | virg. | 9 | 14 | 57 | 7 | 28 | □ ♃ ☾ 10 p. |
| 29 | a | Narcis | | 21 | 15 | 58 | 7 | 30 | |
| 30 | b | Absolon | libr. | 3 | 16 | 58 | 7 | 31 | |
| 31 | c | M. Ben. con. | | 15 | 17 | 59 | 7 | 33 | ☾ ☊ |

## October.

The Longitude of the Planets.

| | ♄ | ♃ | ♂ | ♀ | ☿ |
|---|---|---|---|---|---|
| 1 | 28♋12 | 8♐ 2 | 17♐27 | 6♎00 | 12♍46 |
| 5 | 28 24 | 8 47 | 20 22 | 11 00 | 16 9 |
| 10 | 28 37 | 9 43 | 24 2 | 17 15 | 18 45 |
| 15 | 28 48 | 10 43 | 27 45 | 23 31 | 18 48 |
| 20 | 28 55 | 11 44 | 1♑30 | 29 47 | 15 R12 |
| 25 | 29 00 | 12 45 | 5 14 | 6♍9 | 8 48 |

| | | |
|---|---|---|
| 1 | 1 | 24 |
| 2 | 2 | 12 |
| 3 | 3 | 00 |
| 4 | 3 | 48 |
| 5 | 4 | 36 |
| 6 | 5 | 24 |
| 7 | 6 | 12 |
| 8 | 7 | 00 |
| 9 | 7 | 48 |
| 10 | 8 | 36 |
| 11 | 9 | 24 |
| 12 | 10 | 12 |
| 13 | 11 | 00 |
| 14 | 11 | 48 |
| 15 | 12 | 36 |
| 16 | 1 | 24 |
| 17 | 2 | 12 |
| 18 | 3 | 00 |
| 19 | 3 | 48 |
| 20 | 4 | 36 |
| 21 | 5 | 24 |
| 22 | 6 | 12 |
| 23 | 7 | 00 |
| 24 | 7 | 48 |
| 25 | 8 | 36 |
| 26 | 9 | 24 |
| 27 | 10 | 12 |
| 28 | 11 | 00 |
| 29 | 11 | 48 |
| 30 | 12 | 36 |
| 31 | 1 | 24 |

High water at *London*-Bridge.

# November hath xxx. dayes.

New Moon the 3 day, 17 min. paſt 4 in the morn.
Firſt quarter the 10 day, 38 min. paſt 1 in the morn.
Full Moon the 17 day, 10 min. paſt 4 in the morn.
Laſt quarter the 25 day, 19 min. paſt 5 in the morn.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | d | All Saints | libr. | 28 | 19 | 0 | 7 | 35 | ☌ ☿ ☾ 10 p. |
| 2 | e | All Souls | ſcor. | 11 | 20 | 0 | 7 | 36 | ☌ ♀ ☾ 9 p. |
| 3 | f | | | 25 | 21 | 1 | 7 | 37 | |
| 4 | g | Spencer | ſag. | 9 | 22 | 2 | 7 | 39 | ☌ ♃ ☾ 10 p. |
| 5 | a | Powder Tu. | | 23 | 23 | 2 | 7 | 41 | |
| 6 | b | Leonard | capr. | 7 | 24 | 3 | 7 | 42 | |
| 7 | c | Theodoze | | 21 | 25 | 4 | 7 | 44 | ☌ ♂ ☾ 1 a. |
| 8 | d | | aqua. | 5 | 26 | 4 | 7 | 45 | ☌ ♄ ☾ 1 a. |
| 9 | e | 24 Sund. af. Tr. | | 20 | 27 | 5 | 7 | 47 | |
| 10 | f | | piſc. | 4 | 28 | 6 | 7 | 48 | |
| 11 | g | Martin Bp. | | 18 | 29 | 7 | 7 | 49 | △ ☉ ♄ 8 a. |
| 12 | a | Perrain | aries | 2 | 0 | 8 | 7 | 51 | ☿ Apog. |
| 13 | b | | | 15 | 1 | 9 | 7 | 53 | ☾ ♌ |
| 14 | c | Frederick | | 29 | 2 | 10 | 7 | 54 | |
| 15 | d | | taur. | 13 | 3 | 11 | 7 | 55 | ☌ ☿ ☾ 5 p. |
| 16 | e | 25 Sund. af. Tr. | | 26 | 4 | 12 | 7 | 56 | |
| 17 | f | | gem. | 9 | 5 | 13 | 7 | 58 | |
| 18 | g | | | 22 | 6 | 14 | 7 | 59 | ☌ ☉ ♀ 8 a. |
| 19 | a | Elizabeth | canc. | 5 | 7 | 15 | 8 | 0 | ♀ Occident. |
| 20 | b | | | 17 | 8 | 16 | 8 | 1 | |
| 21 | c | preſent Ma. | | 29 | 9 | 17 | 8 | 2 | |
| 22 | d | Agapius | leo | 11 | 10 | 18 | 8 | 3 | ☾ Apog. |
| 23 | e | 26 Sund. af. Tr. | | 23 | 11 | 19 | 8 | 4 | |
| 24 | f | | virg. | 5 | 12 | 20 | 8 | 5 | |
| 25 | g | Katherine | | 16 | 13 | 21 | 8 | 6 | ♂ Perig. |
| 26 | a | Conrade | | 28 | 14 | 22 | 8 | 7 | |
| 27 | b | | libr. | 11 | 15 | 23 | 8 | 8 | ☾ ♍ |
| 28 | c | Term ends | | 23 | 16 | 24 | 8 | 9 | |
| 29 | d | | ſcor. | 6 | 17 | 25 | 8 | 9 | ☌ ♃ ♀ 11 p. |
| 30 | e | Iudeth Bp. | | 19 | 18 | 26 | 8 | 10 | Advent Sund. |

## Novemb.

The Longitude of the Planets

| | ♄ | ♃ | ♂ | ♀ | ☿ |
|---|---|---|---|---|---|
| 1 | 29♋ 6 | 14♐ 15 | 10♍ 33 | 14m 53 | 3m 57 |
| 5 | 29 R 4 | 15 7 | 13 36 | 19 55 | 4D 49 |
| 10 | 28 57 | 16 14 | 17 27 | 26 12 | 9 4 |
| 15 | 28 48 | 17 22 | 21 18 | 2♐ 31 | 15 7 |
| 20 | 28 39 | 18 30 | 25 11 | 8 48 | 22 7 |
| 25 | 28 27 | 19 38 | 29 5 | 15 6 | 29 30 |

| | | |
|---|---|---|
| 1 | 2 | 12 |
| 2 | 3 | 00 |
| 3 | 3 | 48 |
| 4 | 4 | 36 |
| 5 | 5 | 24 |
| 6 | 6 | 12 |
| 7 | 7 | 00 |
| 8 | 7 | 48 |
| 9 | 8 | 36 |
| 10 | 9 | 24 |
| 11 | 10 | 12 |
| 12 | 11 | 00 |
| 13 | 11 | 48 |
| 14 | 12 | 36 |
| 15 | 1 | 24 |
| 16 | 2 | 12 |
| 17 | 3 | 00 |
| 18 | 3 | 48 |
| 19 | 4 | 36 |
| 20 | 5 | 24 |
| 21 | 6 | 12 |
| 22 | 7 | 00 |
| 23 | 7 | 48 |
| 24 | 8 | 36 |
| 25 | 9 | 24 |
| 26 | 10 | 12 |
| 27 | 11 | 00 |
| 28 | 11 | 48 |
| 29 | 12 | 36 |
| 30 | 1 | 24 |

High water at *London*-Bridge.

# December hath xxxi. dayes.

New Moon the 2 day, 49 min. past 9 at night.
First quarter the 9 day, 19 min. past 10 before noon.
Full Moon the 16 day, 18 min. past 9 at night.
Last quarter the 23 day, 17 imn. past 8 at night.
New Moon the 30 day, 16 min. past 7 at night.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | f | | | sag. | 3 | 19 | 27 | 8 | 10 | ☽ ☿ ☾ 10 p. |
| 2 | g | Libane | | | 17 | 20 | 28 | 8 | 11 | ☌ ♀ ☾ at mid. |
| 3 | a | | | capr. | 2 | 21 | 29 | 8 | 11 | ♆ Orient. |
| 4 | b | Barbary | | | 16 | 22 | 30 | 8 | 11 | |
| 5 | c | Sabina | | aqua. | 1 | 23 | 32 | 8 | 12 | ☌ ♂ ☾ 10 p. |
| 6 | d | | | | 16 | 24 | 33 | 8 | 12 | |
| 7 | e | 2 Sund.in Adv. | | pisc. | 1 | 25 | 34 | 8 | 12 | |
| 8 | f | | | | 15 | 26 | 36 | 8 | 12 | □ ♀ ☾ 8 p. |
| 9 | g | Cyprian | | | 29 | 27 | 37 | 8 | 12 | |
| 10 | a | | | arie. | 12 | 28 | 38 | 8 | 12 | ☾ ☊ |
| 11 | b | | | | 26 | 29 | 39 | 8 | 12 | ☌ ♆ ♀ ♐ a. |
| 12 | c | Terra in ♋ | | taur. | 9 | ♈ | 40 | 8 | 12 | |
| 13 | d | Lucie | | | 22 | 1 | 42 | 8 | 12 | ♀ Perig. |
| 14 | e | 3 Sund.in Adv. | | gem. | 5 | 2 | 44 | 8 | 12 | ☿ Apog. |
| 15 | f | | | | 17 | 3 | 45 | 8 | 12 | ☿ Occident. |
| 16 | g | | | canc. | 1 | 4 | 46 | 8 | 12 | |
| 17 | a | Lazarus | | | 13 | 5 | 47 | 8 | 11 | |
| 18 | b | Christopher | | | 25 | 6 | 48 | 8 | 11 | ☌ ♂ ☾ 4 p. |
| 19 | c | | | leo | 7 | 7 | 49 | 8 | 11 | |
| 20 | d | Amon | | | 19 | 8 | 50 | 8 | 10 | ☾ Apog. |
| 21 | e | Thomas Ap. | | virg. | 1 | 9 | 52 | 8 | 10 | An Greg. 1652 |
| 22 | f | | | | 14 | 10 | 53 | 8 | 9 | |
| 23 | g | Victor | | | 28 | 11 | 55 | 8 | 9 | |
| 24 | a | Claud | | libr. | 11 | 12 | 56 | 8 | 8 | |
| 25 | b | Christ Nat. | | | 23 | 13 | 57 | 8 | 8 | |
| 26 | c | Stephen | | scor. | 7 | 14 | 58 | 8 | 7 | ☌ ♄ ♀ |
| 27 | d | Jo'n Evan. | | | 21 | 15 | 59 | 8 | 7 | |
| 28 | e | Innocents | | sag. | 4 | 16 | 00 | 8 | 6 | |
| 29 | f | Jonathan | | | 18 | 17 | 1 | 8 | 5 | |
| 30 | g | David | | capr. | 1 | 18 | 2 | 8 | 4 | Finis An. Jul. |
| 31 | a | Silvester | | | 15 | 19 | 3 | 8 | 3 | 1651. |

## December

The Longitude of the Planets.

| | ♄ | ♃ | ♂ | ♀ | ☿ |
|---|---|---|---|---|---|
| 1 | 28♑ 10 | 21♐ 00 | 3♒ 45 | 22♐ 40 | 0♐ 30 |
| 5 | 27 56 | 21 55 | 6 51 | 27 42 | 14 39 |
| 10 | 27 36 | 23 4 | 10 46 | 4♑ 00 | 22 18 |
| 15 | 27 15 | 24 14 | 14 40 | 10 19 | 00♑ 6 |
| 20 | 26 51 | 25 23 | 18 35 | 16 36 | 8 00 |
| 25 | 25 40 | 26 35 | 22 31 | 22 10 | 16 15 |

| | | |
|---|---|---|
| 1 | 2 | 12 |
| 2 | 3 | 00 |
| 3 | 3 | 48 |
| 4 | 4 | 36 |
| 5 | 5 | 24 |
| 6 | 6 | 12 |
| 7 | 7 | 00 |
| 8 | 7 | 48 |
| 9 | 8 | 36 |
| 10 | 9 | 24 |
| 11 | 10 | 12 |
| 12 | 11 | 00 |
| 13 | 11 | 48 |
| 14 | 12 | 36 |
| 15 | 1 | 24 |
| 16 | 2 | 12 |
| 17 | 3 | 00 |
| 18 | 3 | 48 |
| 19 | 4 | 36 |
| 20 | 5 | 24 |
| 21 | 6 | 12 |
| 22 | 7 | 00 |
| 23 | 7 | 48 |
| 24 | 8 | 36 |
| 25 | 9 | 24 |
| 26 | 10 | 12 |
| 27 | 11 | 00 |
| 28 | 11 | 48 |
| 29 | 12 | 36 |
| 30 | 1 | 24 |
| 31 | 2 | 00 |

High water at *London*-Bridge.

## The Anatomy of Mans Body, as the parts thereof are attributed to the XII *Celestiall* Signes.

♈ Aries Head and face.

♉ Taurus Neck and Throat.

♋ Cancer Brest, Stomack ribs

♍ Virgo, Bowels & Belly.

♏ Scorpio Secrets.

♑ Capricornus Knees.

♊ Gemini Arms & shoulders

♌ Leo, Heart & back.

♎ Libra Reins & Loyns.

♐ Sagitarius Thighes

♒ Aquarius Leggs.

♓ Pisces, Feet.

Mans Head, and Face, heavens Ram obey:
Our Neck, the neck-strong Bull doth sway:
Th'arm-twining Twins, guide Hands, and Arms:
Brest, Sides, and Stomack, Cancer charms:
The Lion rules our Back, and Heart:
Bowels, and Belly, is Virgo's part:
Reins, Hanches, Navill, Libra friends:
Bladder, and Secrets Scorpio tends.
The halfe horse Bow man, claimes our Thighes:
Unto the Kid, our Knees suffice:
Our Legs are but the Butlers fees:
The Fish, our foot-steps over-sees.

*The Characters of the Planets.*

♄ Saturn. ♃ Jupiter. ♂ Mars. ☉ Sol. ♀ Venus. ☿ Mercury. ☾ Luna.

*The Characters of the Aspects.*

☌ Conjunction. ☍ Opposition. □ Quartile. △ Trine. ⚹ Sextile.

## *Of the revolution of the Yeare.*

CConcerning the division of the Year into four Quarters or Seasons, there have been divers opinions ingendred, among the Ancients of severall Countries, some limiting the Quarters of the year by the Ascension of certain fixed Stars, as the Pleiades, Arcturus, and some others, accounting it Spring from the AEquinoctiall point of ♈; from the rising of the Pleiades, Summer; from the rising of Arcturus, Autumn; and from the setting of the Pleiades, Winter. Now, how uncertain this manner of accounting was (though possibly well selected for some particular Latitude) is evident to any one but reasonably well versed in the Doctrine of the Sphære or Globe. for in some Latitudes many of the fixed Stars never rise nor set, but are perpetually above the Horizon, as in these temperate Climates an the Northside of the AEquinoctiall line, all the Stars towards the North Pole never set, and those near the South Pole wee never see because they never ascend above our Horizon.

Again, the common opinion now retain'd, is to limit the Seasons according to the Suns ingresse into the four Cardinall Signes of the Zodiack, or at the intersection of the two colure circles with the Ecliptick, which are in the Points ♈, ♋, ♎, and ♑, accounting it Spring from the Suns entrance into ♈ till he forsake ♊, Summer from his entrance into ♋ till he forsake ♍, Autumn from his entrance into ♎ till he forsake ♐, and Winter from his entrance into ♑ till he forsake ♓. This opinion (though liable to the same inconvenience as the other be eye mentioned) is in frequent use with Astronomers, and by them retain'd not so much (as I suppose) to limit thereby the Seasons of the year, as to denote unto us the greatest obliquity of the Ecliptick, and thereby the increase and decrease of dayes and nights: for the ☉ being either in ♈ or ♎ it maketh the dayes and nights of equall length, and his being in ♋ produceth the longest dayes to all Northern, and the shortest to all Southern Inhabitans; so, on the contrary, his being in ♑ maketh the shortest dayes to all Northern, and the longest to all Southern Inhabitants. Now that this kinde of division hath the like inconvenience as the other is evident, for those who dwel between the Tropicks have the Seasons of the year double, that is to say, two Summers & two Winters; so likewise unto those who dwell right under the AEquinoctial; for the Sun to them is Vertical in both AEquinoctial points: being to them Summer, whereas to us it is then Spring or Autumne, and unto them it is also Winter when the Sun is in either of the Tropicks, whereas to us it is Summer in the one and Winter in the other.

From what hath been ſaid we may gather that there can be no preciſe times appointed for the generall diviſion of the quarters of the year in all Latitudes, but (if any) every particular Latitude muſt aſſume to themſelves particular times which may beſt agree with the rules of Agriculture correſpondent to the climate wherein they live. Now, leſt I ſhould be blamed by any either for neglect or ignorance, I will (according to cuſtome) inſert the preciſe time of the Suns entrance into the foure Cardinall Signes of the Zodiack, as I have calculated them from the Aſtronomicall Tables in *Vrania Practica*, Part. 2.

*Of the ingreſſe of the Sun into* ♈, *or the Earth into* ♎.

THe Sun enters ♈, or the Earth ♎ (according to the moſt rationall hypotheſis of *Copernicus*) on Monday the 10 of *March*, at 1 houre, 48 min: 26 ſeconds afternoon, which time we have uſually counted that the Spring commenceth, but at this time the dayes and nights are of equall length through the whole World, the Sun having neither declination from the AEquinoctiall, nor amplitude from the Eaſt or Weſt points of the Horizon, in an oblique Sphere; but to thoſe that live in a right Sphere (that is to ſay, directly under the Poles of the World) who have but one day and one night in the whole year (as in *Greenland* and other places within the Artick and Antartick Circles) the Sun at this time is directly in their Horizon, ſo that it is the beginning of day to thoſe that are ſcituate on the North ſide of the Æquinoctiall, and the beginning of night to thoſe on the South ſide thereof. Now thoſe who live directly under the Æquinoctial line have their days and nights of equall length through the whole Year their Amplitude and Declination being always equall, and at this time the Sun paſſeth directly over their heads at noone, and caſteth their ſhadow perpendicular, the people that inhabit in thoſe places have the Poles of the world in their Horizon, and enjoy one benefit which no other people in the world beſides can, for in twenty four hours all the Stars both Northward and Southward

ward do rise and set, so that they can see the Stars neer both the Poles at once.

*The calculation of the Suns entrance into* ♈ *according to* Urania Practica, *Part.* 2.

| | Longitu. ☉ s | d | ′ | ″ | Apog: ☉ s | d | ′ | ″ |
|---|---|---|---|---|---|---|---|---|
| Yeare 1651 | 09 | 19 | 52 | 50 | 3 | 6 | 35 | 26 |
| March | 01 | 28 | 09 | 11 | | | | 10 |
| day 10 | | 9 | 51 | 23 | | | | 2 |
| houre 1 | | | 2 | 28 | | | | 1 |
| min. 48 | | | 1 | 58 | | | | |
| sec. 26 | | | | 1 | | | | |
| mid: longit. of ☉ | 11 | 27 | 57 | 51 | 3 | 6 | 35 | 39 |
| Apog. ☉ subst. | 3 | 6 | 35 | 39 | | | | |
| rest. Anom. | 8 | 21 | 22 | 12 | | | | |
| Æquation add. | | 2 | 2 | 9 | | | | |
| | 00 | 00 | 00 | 00 | ☉ true place in ♈ | | | |

*Of the ingreß of the Sun into* ♋, *or the Earth into* ♑.

THe Sun enters ♋ on Wednesday the 11 of *June*, 5 hours 5 min: 29 seconds afternoon, the calculation whereof from the forementioned Tables is as followeth.

| | Longit. ☉ s | d | ′ | ″ | Apog. ☉ s | d | ′ | ″ |
|---|---|---|---|---|---|---|---|---|
| Yeare 1651 | 9 | 19 | 52 | 50 | 3 | 6 | 35 | 26 |
| June | 4 | 28 | 49 | 58 | | | | 25 |
| day 11 | | 10 | 50 | 32 | | | | 2 |
| houres 5 | | | 12 | 19 | | | | |
| min. 5 | | | | 12 | | | | |
| seco. 29 | | | | 1 | | | | |
| middle longit. ☉ | 2 | 29 | 45 | 52 | 3 | 6 | 35 | 53 |
| Apoge. subtr. | 3 | 6 | 35 | 53 | | | | |
| rest. Anom. | 11 | 23 | 9 | 59 | | | | |
| Æquation added | | | 14 | 8 | | | | |
| | 0 | | | 00 | ☉ true place in ♋ | | | |

THe Sun enters *Libra* on Saturday the 13. of *Septemb.* at 7 hours, 51 min. 17 seconds in the morn. for which time I calculate the Suns true place, and finde it to be as followeth, in the subsequent operation.

| | Longit. ☉. | | | | Apoge. ☉ | | | |
|---|---|---|---|---|---|---|---|---|
| | s | d | ′ | ″ | s | d | ′ | ″ |
| Yeare 1651. | 9 | 19 | 52 | 50 | 3 | 6 | 35 | 26 |
| September | 7 | 29 | 30 | 44 | | | | 40 |
| day 12 | | 11 | 49 | 40 | | | | 2 |
| hours 19 | | | 46 | 49 | | | | |
| min. 51 | | | 2 | 6 | | | | |
| seconds 17 | | | | 1 | | | | |
| mid. Longit. of ☉ | 6 | 2 | 2 | 10 | 3 | 6 | 36 | 8 |
| Apoge. substr. | 3 | 6 | 36 | 8 | | | | |
| rests Anomal. | 2 | 25 | 26 | 2 | | | | |
| Æquation substr. | | 2 | 2 | 10 | | | | |
| | 6 | 00 | 00 | 00 | ☉ true place in ♎ | | | |

*Of the Suns entrance into ♑, or the Earths into ♋.*

THe Sun enters ♑ on Thursday the 11 of *Decemb.* at 6 ho. 40 m. afternoon, the calculation whereof followeth.

| | Longit. | | | | Apoge ☉ | | | |
|---|---|---|---|---|---|---|---|---|
| | s | d | ′ | ″ | s | d | ′ | ″ |
| Year 1651. | 9 | 19 | 52 | 50 | 3 | 6 | 35 | 26 |
| December | 10 | 29 | 12 | 22 | | | | 56 |
| day 11 | | 10 | 50 | 32 | | | | 1 |
| houres 6 | | | 14 | 47 | | | | |
| min. 4 | | | 1 | 39 | | | | |
| middle Long. ☉ | 9 | 0 | 14 | 10 | 3 | 6 | 36 | 23 |
| Apoge. substr. | 3 | 6 | 36 | 39 | | | | |
| rests Anomal. | 5 | 23 | 37 | 57 | | | | |
| Equation. substr. | | | 14 | 19 | | | | |
| | 9 | 00 | 00 | 00 | ☉ true place in ♑ | | | |

## *Of the Eclipses this yeare.*

THe Inhabitants of the Earth will be deprived of part of the light of the Sun twice this yeare, the first will be on Wednesday the 9 of *April*, at 9 min. past 10 at night; the second on the 4 of *October*, at 46 min. past 1 afternoone, but neither of these of the Sun, nor any other of the Moone will be visible to the Inhabitants in these parts, therefore I have omitted to insert the Calculations thereof.

## *A Table by which you may judge the Weather by the Aspects of the Planets with the Moon.*

| ☽ | ☿ | ♀ | ☉ | ♂ | ♃ | ♄ |
|---|---|---|---|---|---|---|
| ♄ | Moist Remiss Close Snow | Wind Rain Wind Snow | Cold rain mifling, cold rain rain snow | Cold rain hail thun. Wind Warm | Thund. Haile stormy Remiss | according to the nature of the ruling Pla. net. | Spring Sumer Autum Wint |
| ♃ | of the quality of the signe | Wind Thunder Moist Temper | very temperate | Wind Thunder Wind Remisse | Turbu. Thund. Windy Temper | spring summer Autumne Winter | |
| ♂ | Haile heat intemper. variable. | Raine Snow Thunder hail wind snow | Rain Mists Rain like Remisse. | dry wind Thunder dry wind Warm | spring summ. autumn winter | | |
| ☉ | accor. to the time & predo. Planet | Winde & some times Rain. | Moist Thunder Rain Mists | Spring Summer Autumne Winter | | | |
| ♀ | Rain Cold cloudy Snow. | Sw. shours Raine Variable Moist | spring summer Autumn Winter | | | | |
| ☿ | Varia. of the nature of the signe. | Spring summer Autumne Winter | | | | | |

*Si populus vult decipi decipiatur.*

A Table shewing the right Ascensions and Declinations of 40. of the principallest fixed Stars, calculated for the present year of our Lord, 1651.

| Names of the Stars | R. Asc. h. | m | Declination degr. | min. | | Magnitude |
|---|---|---|---|---|---|---|
| Pole Star. | 0 | 31 | 87 | 27 | N | 2 |
| Girdle of Andromeda, | 0 | 50 | 33 | 48 | N | 2 |
| vormer horne of ♈. | 1 | 35 | 17 | 37 | N | 4 |
| The bright star in the head of ♈, | 1 | 48 | 21 | 48 | N | 3 |
| The jaw of the Whale. | 2 | 44 | 2 | 42 | N | 2 |
| The head of Medusa. | 2 | 46 | 39 | 3 | N | 3 |
| The Buls Eye. | 4 | 1 | 15 | 46 | N | 1 |
| The Goate. | 4 | 51 | 45 | 35 | N | 1 |
| The former shoulder of Orion. | 5 | 7 | 4 | 58 | N | 2 |
| The latter shoulder of Orion. | 5 | 36 | 7 | 18 | N | 2 |
| The Great Dog. | 6 | 30 | 16 | 13 | S | 1 |
| The higher head of ♊. | 7 | 12 | 32 | 35 | N | 2 |
| The Little Dog. | 7 | 24 | 6 | 6 | N | 2 |
| The lower head of Gemini. | 7 | 24 | 8 | 9 | N | 2 |
| The Crab. | 8 | 20 | 20 | 5 | N | New: |
| The head of Hydra. | 9 | 11 | 7 | 10 | S | 2 |
| The Lyons heart | 9 | 50 | 13 | 39 | N | 1 |
| In the Lownes of the Lyon. | 10 | 56 | 22 | 36 | N | 2 |
| In the tayle of the Lyon. | 11 | 31 | 16 | 32 | N | 1 |
| In the Girdle of Virgo. | 12 | 38 | 5 | 20 | M | 3 |
| Aliot. | 1 | 38 | 57 | 53 | M | 2 |
| Vindimiatrix. | 12 | 45 | 15 | 51 | M | 3 |
| Spica Virginis. | 13 | 7 | 9 | 17 | S | 1 |
| Arcturus. | 14 | 20 | 21 | 34 | M | 1 |
| The southern ballance. | 14 | 31 | 14 | 32 | S | 2 |
| The Northern ballance. | 14 | 58 | 8 | 2 | S | 2 |
| The bright star in the Serpents neck. | 15 | 27 | 7 | 3 | M | 3 |
| The heart of scorpius. | 16 | 8 | 25 | 34 | S | 1 |
| The head of Hercules. | 16 | 59 | 14 | 51 | M | 3 |
| The head of Ophincus. | 17 | 19 | 12 | 52 | M | 3 |
| The bright star in the harp. | 18 | 25 | 38 | 30 | M | 1 |
| The bright star in the Vulter. | 19 | 34 | 8 | 1 | M | 2 |
| The upper horn of ♑. | 19 | 58 | 13 | 32 | S | 3 |
| The left hand of ♒. | 20 | 29 | 10 | 34 | S | 4 |
| The left shoulder of ♒. | 21 | 13 | 7 | 2 | S | 3 |
| The mouth of Pegasus. | 21 | 27 | 8 | 18 | M | 3 |
| The right shoulder of ♒. | 21 | 48 | 1 | 38 | S | 3 |
| Fomahant. | 22 | 38 | 31 | 23 | S | 1 |
| In the upper wing of Pegasus. | 22 | 47 | 13 | 21 | M | 2 |
| The tip of the wing of Pegasus. | 23 | 5 | 13 | 15 | M | 3 |

# A Table of the Suns right Ascension in houres and minutes for the 6. first Moneths of this Year, 1651.

| Day | January | | Februa. | | March | | Aprill | | May | | June | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h | m | h | m | h | m | h | m | h | m | h | m |
| 1 | 19 | 33 | 21 | 41 | 23 | 28 | 1 | 20 | 3 | 13 | 5 | 18 |
| 2 | 19 | 37 | 21 | 45 | 23 | 32 | 1 | 24 | 3 | 17 | 5 | 23 |
| 3 | 19 | 41 | 21 | 49 | 23 | 35 | 1 | 28 | 3 | 21 | 5 | 26 |
| 4 | 19 | 46 | 21 | 53 | 23 | 39 | 1 | 32 | 3 | 25 | 5 | 30 |
| 5 | 19 | 51 | 21 | 57 | 23 | 43 | 1 | 35 | 3 | 29 | 5 | 35 |
| 6 | 19 | 55 | 22 | 1 | 23 | 46 | 1 | 38 | 3 | 33 | 5 | 39 |
| 7 | 19 | 59 | 22 | 5 | 23 | 50 | 1 | 42 | 3 | 37 | 5 | 43 |
| 8 | 20 | 3 | 22 | 9 | 23 | 53 | 1 | 46 | 3 | 41 | 5 | 47 |
| 9 | 20 | 7 | 22 | 13 | 23 | 56 | 1 | 50 | 3 | 45 | 5 | 51 |
| 10 | 20 | 10 | 22 | 17 | 24 | 00 | 1 | 54 | 3 | 49 | 5 | 55 |
| 11 | 20 | 16 | 22 | 21 | 0 | 4 | 1 | 51 | 3 | 53 | 6 | 0 |
| 12 | 20 | 20 | 22 | 25 | 0 | 7 | 2 | 1 | 3 | 56 | 6 | 4 |
| 13 | 20 | 24 | 22 | 28 | 0 | 11 | 2 | 5 | 4 | 1 | 6 | 8 |
| 14 | 20 | 28 | 22 | 32 | 0 | 15 | 2 | 9 | 4 | 5 | 6 | 13 |
| 15 | 20 | 32 | 22 | 36 | 0 | 18 | 2 | 12 | 4 | 9 | 6 | 16 |
| 16 | 20 | 36 | 22 | 40 | 0 | 22 | 2 | 16 | 4 | 13 | 6 | 21 |
| 17 | 20 | 41 | 22 | 43 | 0 | 26 | 2 | 20 | 4 | 17 | 6 | 25 |
| 18 | 20 | 45 | 22 | 47 | 0 | 29 | 2 | 23 | 4 | 21 | 6 | 29 |
| 19 | 20 | 50 | 22 | 51 | 0 | 33 | 2 | 27 | 4 | 25 | 6 | 32 |
| 20 | 20 | 54 | 22 | 55 | 0 | 37 | 2 | 31 | 4 | 29 | 6 | 37 |
| 21 | 20 | 58 | 22 | 59 | 0 | 40 | 2 | 35 | 4 | 33 | 6 | 41 |
| 22 | 21 | 2 | 23 | 2 | 0 | 44 | 2 | 38 | 4 | 38 | 6 | 45 |
| 23 | 21 | 7 | 23 | 6 | 0 | 48 | 2 | 42 | 4 | 41 | 6 | 49 |
| 24 | 21 | 10 | 23 | 9 | 0 | 51 | 2 | 46 | 4 | 45 | 6 | 53 |
| 25 | 21 | 14 | 23 | 13 | 0 | 55 | 2 | 49 | 4 | 49 | 6 | 57 |
| 26 | 21 | 18 | 23 | 17 | 0 | 58 | 2 | 53 | 4 | 53 | 7 | 1 |
| 27 | 21 | 22 | 23 | 21 | 1 | 1 | 2 | 57 | 4 | 57 | 7 | 6 |
| 28 | 21 | 26 | 23 | 24 | 1 | 5 | 3 | 1 | 5 | 1 | 7 | 10 |
| 29 | 21 | 30 | | | 1 | 9 | 3 | 5 | 5 | 5 | 7 | 14 |
| 30 | 21 | 34 | | | 1 | 13 | 3 | 9 | 5 | 10 | 7 | 18 |
| 31 | 21 | 38 | | | 1 | 17 | | | 5 | 14 | | |

# A Table of the Suns right Ascension in hours and minutes, for the 6. last Months of this Yeare,

## 1651.

| Days | July. | | August | | Septem. | | Octob. | | Novem. | | Decem. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h | m | h | m | h | m | h | m | h | m | h | m |
| 1 | 7 | 22 | 9 | 24 | 11 | 18 | 13 | 6 | 15 | 7 | 17 | 15 |
| 2 | 7 | 27 | 9 | 28 | 11 | 22 | 13 | 10 | 15 | 11 | 17 | 20 |
| 3 | 7 | 31 | 9 | 32 | 11 | 25 | 13 | 14 | 15 | 15 | 17 | 24 |
| 4 | 7 | 34 | 9 | 36 | 11 | 29 | 13 | 18 | 15 | 19 | 17 | 28 |
| 5 | 7 | 39 | 9 | 40 | 11 | 33 | 13 | 21 | 15 | 23 | 17 | 33 |
| 6 | 7 | 43 | 9 | 43 | 11 | 36 | 13 | 25 | 15 | 27 | 17 | 37 |
| 7 | 7 | 47 | 9 | 46 | 11 | 40 | 13 | 29 | 15 | 31 | 17 | 41 |
| 8 | 7 | 51 | 9 | 50 | 11 | 44 | 13 | 33 | 15 | 36 | 17 | 46 |
| 9 | 7 | 55 | 9 | 53 | 11 | 46 | 13 | 36 | 15 | 40 | 17 | 50 |
| 10 | 8 | 58 | 9 | 58 | 11 | 50 | 13 | 40 | 15 | 44 | 17 | 54 |
| 11 | 8 | 2 | 10 | 2 | 11 | 54 | 13 | 44 | 15 | 48 | 17 | 59 |
| 12 | 8 | 7 | 10 | 6 | 11 | 58 | 13 | 49 | 15 | 52 | 18 | 4 |
| 13 | 8 | 11 | 10 | 9 | 12 | 2 | 13 | 53 | 15 | 56 | 18 | 9 |
| 14 | 8 | 14 | 10 | 12 | 12 | 6 | 13 | 58 | 16 | 1 | 18 | 13 |
| 15 | 8 | 18 | 10 | 16 | 12 | 9 | 14 | 3 | 16 | 5 | 18 | 17 |
| 16 | 8 | 22 | 10 | 20 | 12 | 12 | 14 | 7 | 16 | 9 | 18 | 22 |
| 17 | 8 | 26 | 10 | 24 | 12 | 16 | 14 | 11 | 16 | 14 | 18 | 26 |
| 18 | 8 | 30 | 10 | 27 | 12 | 19 | 14 | 15 | 16 | 8 | 18 | 30 |
| 19 | 8 | 34 | 10 | 31 | 12 | 23 | 14 | 19 | 16 | 3 | 18 | 35 |
| 20 | 8 | 38 | 10 | 35 | 12 | 27 | 14 | 22 | 16 | 7 | 18 | 39 |
| 21 | 8 | 42 | 10 | 38 | 12 | 30 | 14 | 26 | 16 | 31 | 18 | 43 |
| 22 | 8 | 46 | 10 | 41 | 12 | 34 | 14 | 30 | 16 | 35 | 18 | 48 |
| 23 | 8 | 50 | 10 | 45 | 12 | 38 | 14 | 34 | 16 | 40 | 18 | 52 |
| 24 | 8 | 54 | 10 | 49 | 12 | 41 | 14 | 38 | 16 | 44 | 18 | 57 |
| 25 | 8 | 58 | 10 | 53 | 12 | 45 | 14 | 42 | 16 | 48 | 19 | 2 |
| 26 | 9 | 1 | 10 | 56 | 12 | 49 | 14 | 46 | 16 | 53 | 19 | 6 |
| 27 | 9 | 5 | 11 | 0 | 12 | 52 | 14 | 50 | 16 | 57 | 19 | 10 |
| 28 | 9 | 19 | 11 | 3 | 12 | 56 | 14 | 55 | 16 | 2 | 19 | 15 |
| 29 | 9 | 3 | 11 | 7 | 12 | 59 | 14 | 59 | 17 | 5 | 19 | 19 |
| 30 | 9 | 16 | 11 | 11 | 13 | 3 | 14 | 3 | 17 | 11 | 19 | 23 |
| 31 | 9 | 20 | 11 | 14 | | | 15 | | | | 19 | 28 |

## *Some uses of the Tables of the right Ascension of the Sun and fixed Stars, to find their Southing and the hour of the night.*

TO find the culminating or comming to the South of any of the fixed stars mentioned in the first Table, you need do no more than find the name of the star (the time of whose Southing you require) in the first Column of the table, against the Stars names, and in the second Column of the same Table you shall have the right ascension of the same Star, from which if you substract the right ascension of the Sun, the remainder is the hour and minute of the Stars coming to the South. But here note, that if the right ascension of the Sun be greater than the right ascension of the Star, you must add 12 hours to the right ascension of the Star, and then make substraction, but if 12 hours be not enough then adde 24. hours, and you shall be sure to have enough. *Example.*

On the 1 of June let it be required to know at what time *Arcturus* comes to the Meridian, I finde by the first Table that the right ascension of *Arcturus* is 14 ho. 20 min. The right Ascension of *Arcturus* 14 h. - 20 m. and The right Asc. of the ☉ on the 1 of June 5 —— 16. the *Arcturus* comes to the Meridian at 9 —— 04. right Ascension of the ☉ on the 1. day of June is 5 ho. 16 min. which 5. ho. 16. min being taken from 14 h. 20 m. there remains 9 h. 4 m. at which time *Arcturus* comes to the Meridian on the 1 of June. *Another Example.*

On the 11 of *Decemb.* let it be required to know at what time *Aldebaran* or the Buls-eye comes to the Meridian, I find by the first Table that the right Ascension of the Buls eye is 4 h. 16. m. and that the right Ascension of the Sun on Right ascension of the Buls eye, 4h. —— 16m. the 11 24. hours added to make substr. —————— of *Dec.* Right ascension of ☉ on the 11 Dec. 17 —— 59 is 17h. Buls eye comes to the Meridian at 10 —— 17 59 m. which should be taken from 4 h. 16 m. but because 17 ho. 59 min. cannot be taken from 4 h. 16 m. you must therefore adde 12 h. to 4 h. 16 m. and the summe will be 24 h. 16 m

16 m. from whence if you take 17 h. 59 m. the remainder will be 10 h. 17 m. at which time the Buls eye comes to the Meridian.

*To find the houre of the night by the Stars.*

THe finding of the houre of the night by the ſtars in the firſt Table dependeth of the true knowledg of the Meridian of the place, which how to find, there are ſeverall wales, I will inſtance in one, which (if carefully done) is inferior to none: Upon ſome Window, which is exactly horizontal, make a circle, and in the Centre thereof ſtick up a ſhort wyer directly perpendicular, then in the morning (the Sun ſhining in the Window) obſerve when the top of the ſhadow of the wyer toucheth the very edge of the Circle, and there make a marke, then, likewiſe in the afternoone obſerve again when the ſhadow of the top of the wyer touches the very edge of the Circle, and there make a mark as before in the morning, this done, with your Compaſſes divide the diſtance of theſe two marks into two equall parts, and there make a third mark, then draw a ſtraight Line from this third mark through the centre of the Circle where the wyer ſtandeth, and this line ſo drawn ſhall be in the very Meridian of the place. Then the next day obſerve when the ſhadow of the Wyer falleth directly on this line, for then is the ☉ in the Meridian alſo. Now if about your Houſe you would conſtitute a particular mark for the ready finding of the Meridian at night, you may erect a Pole perpendicular in ſome convenient place about your houſe (as in a garden) then when the ſhadow of the Wyer is directly upon the Meridian line in the Window, the ſhadow of the Pole will at the ſame time be upon the Meridian alſo, wherefore immediatly (at a convenient diſtance, the more the better) make a marke on the ground where the ſhadow of the Pole caſteth) and there erect another pole perpendicular, then ſhal theſe two Poles ſtand in the very MERIDIAN of the place alſo.

Having

Having thus erected two poles in the Meridian of the place, the finding of the hour of the night by the Stars will differ nothing from the finding of their comming to the South, for the Stars in the first Table are taken at such conveniene distance that one or other of them will be on or neer the Meridian at any time, therefore you are to do no more then to stand at a distance from either of your poles, and see which Star is on the Meridian at that time, which when you have done, seeke in the Table what is the right Ascension of that Star, and from the right Ascension of that Star substract the right Ascension of the Sun for that day, and the remainder is the hour of the night, observing (as in the finding of the stars southing) that if the right Ascension of the Sun be greater than the right Ascension of the star, you must adde twelve or twenty four houres thereto to make substraction.

*Example.*

Suppose that on the first day of Aprill at night you would know the hour, going forth and standing at a convenient distance from either of your poles, you espie the Lions taile to be in a right line with your eye & your two poles, wherefore you may conclude it to be on the Meridian, wherefore seek the right ascension thereof in your Table, which is 11 h. 31. m. and also seek in the second Table the right ascension of the Sun, which is on the first of Aprill 1 h. 20 m. which being substracted from 11 h. 31. m. the right ascension of the Lions Tail, there remains 10 h. 11 m. and that is the hour of the night sought.

*Another Example.*

Suppose on the same night when you looked you had found *Aliot* on the Meridian, the right ascension thereof is, 12 h. 38 m. from hence taking the right ascension of the Sun, 1 h. 20 m. the remainder is 11 h. 18m. and that is the hour of the night sought.

# A Table of the Suns Declination in degrees and in the Ecliptick, for every day at Noon, in being of exculation of the Altitude, Azimuth

| Dayes | January | | Februa | | March | | Aprill | | May | | June | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | m | d | m | d | m | d | m | d | m | d | m |
| 1 | 23 | 5 | 13 | 5 | 38 | 3 | 8 | 23 | 17 | 56 | 23 | 9 |
| 2 | 23 | 4 | 13 | 3 | 31 | 5 | 8 | 45 | 18 | 11 | 23 | 13 |
| 3 | 23 | 3 | 13 | 1 | 2 | 51 | 9 | 7 | 18 | 26 | 23 | 17 |
| 4 | 23 | 2 | 12 | 5 | 2 | 27 | 9 | 28 | 18 | 42 | 23 | 20 |
| 5 | 23 | 0 | 12 | 5 | 2 | 3 | 9 | 49 | 18 | 55 | 23 | 23 |
| 6 | 22 | 5 | 12 | 1 | 1 | 40 | 10 | 11 | 19 | 9 | 23 | 25 |
| 7 | 22 | 4 | 11 | 5 | 1 | 16 | 10 | 32 | 19 | 23 | 23 | 27 |
| 8 | 22 | 3 | 11 | 3 | 1 | 52 | 10 | 53 | 19 | 36 | 23 | 29 |
| 9 | 22 | 2 | 11 | 1 | 0 | 29 | 11 | 14 | 19 | 49 | 23 | 30 |
| 10 | 22 | 0 | 10 | 5 | 0 | 5 | 11 | 34 | 20 | 2 | 23 | 31 |
| 11 | 19 | 5 | 10 | 3 | 0 | 19 | 11 | 55 | 20 | 14 | 23 | 31 |
| 12 | 19 | 4 | 10 | 0 | 0 | 42 | 12 | 15 | 20 | 25 | 23 | 31 |
| 13 | 19 | 2 | 9 | 5 | 1 | 6 | 12 | 35 | 20 | 38 | 23 | 31 |
| 14 | 19 | 1 | 9 | 2 | 1 | 29 | 12 | 55 | 20 | 49 | 23 | 30 |
| 15 | 18 | 5 | 9 | 1 | 1 | 53 | 13 | 14 | 21 | 0 | 23 | 29 |
| 16 | 18 | 4 | 8 | 3 | 2 | 17 | 13 | 34 | 21 | 11 | 23 | 27 |
| 17 | 18 | 2 | 8 | 1 | 2 | 40 | 13 | 53 | 21 | 21 | 23 | 25 |
| 18 | 18 | 1 | 7 | 5 | 3 | 8 | 14 | 12 | 21 | 31 | 23 | 22 |
| 19 | 17 | 5 | 7 | 3 | 3 | 27 | 14 | 31 | 21 | 40 | 23 | 19 |
| 20 | 17 | 3 | 7 | 0 | 3 | 50 | 14 | 50 | 21 | 49 | 23 | 16 |
| 21 | 17 | 2 | 6 | 4 | 4 | 13 | 15 | 8 | 21 | 58 | 23 | 12 |
| 22 | 17 | 0 | 6 | 2 | 4 | 36 | 15 | 26 | 22 | 7 | 23 | 8 |
| 23 | 16 | 4 | 5 | 5 | 5 | 0 | 15 | 43 | 22 | 15 | 23 | 3 |
| 24 | 16 | 2 | 5 | 3 | 5 | 23 | 16 | 1 | 22 | 23 | 22 | 58 |
| 25 | 16 | 1 | 5 | 1 | 5 | 46 | 16 | 18 | 22 | 30 | 22 | 53 |
| 26 | 15 | 5 | 4 | 4 | 6 | 9 | 16 | 35 | 22 | 36 | 22 | 47 |
| 27 | 15 | 3 | 4 | 2 | 6 | 31 | 16 | 52 | 22 | 43 | 22 | 41 |
| 28 | 15 | 1 | 4 | 0 | 6 | 54 | 17 | 8 | 22 | 49 | 22 | 35 |
| 29 | 14 | 5 | | | 7 | 16 | 17 | 4 | 22 | 54 | 22 | 28 |
| 30 | 14 | 3 | | | 7 | 38 | 17 | 40 | 23 | 0 | 22 | 21 |
| 31 | 14 | 1 | | | 8 | 1 | | | 23 | 5 | | |

minutes, calculated according to the Sun's place
cellent use in Navigation, for the exact and speedy cal-
and Amplitude of the Sunne.

| Dayes | July | | Aug. | | Septem. | | Octob. | | Nov. | | Dec. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | m | d | m | d | m | d | m | d | m | d | m |
| 1 | 22 | 13 | 15 | 24 | 4 | 39 | 7 | 0 | 17 | 30 | 23 | 6 |
| 2 | 22 | 5 | 15 | 6 | 4 | 16 | 7 | 23 | 17 | 46 | 23 | 11 |
| 3 | 21 | 57 | 14 | 48 | 4 | 53 | 7 | 46 | 18 | 2 | 23 | 15 |
| 4 | 21 | 48 | 14 | 30 | 3 | 30 | 8 | 8 | 18 | 18 | 23 | 18 |
| 5 | 21 | 38 | 14 | 11 | 3 | 7 | 8 | 31 | 18 | 34 | 23 | 21 |
| 6 | 21 | 29 | 13 | 52 | 2 | 44 | 8 | 53 | 18 | 49 | 23 | 24 |
| 7 | 21 | 19 | 13 | 33 | 2 | 21 | 9 | 15 | 19 | 4 | 23 | 26 |
| 8 | 21 | 9 | 13 | 14 | 1 | 57 | 9 | 37 | 19 | 19 | 23 | 28 |
| 9 | 20 | 58 | 12 | 55 | 1 | 34 | 9 | 59 | 19 | 33 | 23 | 30 |
| 10 | 20 | 47 | 12 | 35 | 1 | 10 | 10 | 21 | 19 | 47 | 23 | 31 |
| 11 | 20 | 26 | 12 | 15 | 0 | 47 | 10 | 43 | 20 | 0 | 23 | 31 |
| 12 | 20 | 24 | 11 | 55 | 0 | 23 | 11 | 4 | 20 | 13 | 23 | 31 |
| 13 | 20 | 12 | 11 | 34 | 0 | 0 | 11 | 26 | 20 | 36 | 23 | 31 |
| 14 | 20 | 0 | 11 | 14 | 0 | 24 | 11 | 47 | 20 | 39 | 23 | 30 |
| 15 | 19 | 47 | 10 | 53 | 0 | 47 | 12 | 8 | 20 | 51 | 23 | 29 |
| 16 | 19 | 34 | 10 | 32 | 1 | 11 | 12 | 28 | 21 | 2 | 23 | 27 |
| 17 | 19 | 21 | 10 | 11 | 1 | 34 | 12 | 49 | 21 | 13 | 23 | 24 |
| 18 | 19 | 7 | 9 | 50 | 1 | 58 | 13 | 9 | 21 | 24 | 23 | 21 |
| 19 | 18 | 53 | 9 | 29 | 2 | 21 | 13 | 10 | 21 | 34 | 23 | 18 |
| 20 | 18 | 39 | 9 | 7 | 2 | 45 | 13 | 50 | 21 | 44 | 23 | 14 |
| 21 | 18 | 23 | 8 | 46 | 3 | 8 | 14 | 9 | 21 | 54 | 23 | 9 |
| 22 | 18 | 9 | 8 | 24 | 3 | 32 | 14 | 29 | 22 | 3 | 23 | 5 |
| 23 | 17 | 54 | 8 | 2 | 3 | 55 | 14 | 48 | 22 | 12 | 23 | 0 |
| 24 | 17 | 39 | 7 | 40 | 4 | 19 | 15 | 7 | 22 | 20 | 22 | 54 |
| 25 | 17 | 23 | 7 | 18 | 4 | 42 | 15 | 26 | 22 | 28 | 22 | 48 |
| 26 | 17 | 6 | 6 | 55 | 5 | 5 | 15 | 45 | 22 | 35 | 22 | 41 |
| 27 | 16 | 50 | 6 | 33 | 5 | 28 | 16 | 3 | 22 | 42 | 22 | 34 |
| 28 | 16 | 53 | 6 | 10 | 5 | 52 | 16 | 21 | 22 | 19 | 22 | 27 |
| 29 | 16 | 26 | 5 | 48 | 6 | 15 | 16 | 39 | 22 | 55 | 22 | 19 |
| 30 | 15 | 59 | 5 | 25 | 6 | 38 | 16 | 56 | 23 | | 22 | 10 |
| 31 | 15 | 42 | 5 | 2 | | | 17 | 13 | | | 22 | 1 |

## A Table shewing the Meridian altitude of the Sun, every fifth day this year,

### 1651.

| dayes of the moneth | 5 | | 10 | | 15 | | 20 | | 25 | | 30 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moneths | d | m | d | m | d | m | d | m | d | m | d | m |
| January | 17 | 24 | 18 | 26 | 19 | 37 | 20 | 57 | 22 | 24 | 23 | 58 |
| February | 22 | 59 | 27 | 45 | 29 | 35 | 31 | 29 | 43 | 25 | | |
| March | 36 | 33 | 38 | 32 | 40 | 30 | 42 | 27 | 44 | 22 | 46 | 15 |
| Aprill | 48 | 26 | 50 | 11 | 51 | 50 | 53 | 25 | 54 | 53 | 50 | 15 |
| May | 57 | 29 | 58 | 55 | 59 | 33 | 60 | 22 | 61 | 2 | 61 | 31 |
| June | 61 | 54 | 62 | 00 | 61 | 58 | 61 | 45 | 61 | 22 | 60 | 49 |
| July | 60 | 6 | 59 | 14 | 58 | 13 | 57 | 4 | 54 | 48 | 54 | 24 |
| August | 52 | 36 | 50 | 59 | 49 | 17 | 47 | 31 | 45 | 41 | 43 | 49 |
| September | 41 | 30 | 39 | 33 | 37 | 36 | 35 | 38 | 33 | 41 | 31 | 46 |
| October | 29 | 53 | 29 | 3 | 25 | 16 | 24 | 35 | 22 | 59 | 21 | 29 |
| November | 19 | 51 | 18 | 39 | 17 | 36 | 16 | 43 | 16 | 0 | 15 | 28 |
| December | 15 | 5 | 15 | 0 | 15 | 2 | 15 | 17 | 15 | 44 | 16 | 22 |

## A Table shewing what amplitude the Sun hath, that is, how far distant he riseth or setteth from the East or West, towards either North or South, being in every fifth degree of the Ecliptick in the Latitude of 51 deg. 30 m.

| North \| South | ☉ | | 5 | | 10 | | 15 | | 20 | | 25 | | South \| North |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d | m | d | m | d | m | d | m | d | m | d | m | |
| ♑ ♒ ♓ | 00 | 00 | 03 | 13 | 06 | 23 | 09 | 34 | 12 | 41 | 15 | 45 | ♋ ♌ ♍ |
| | 18 | 41 | 21 | 3 | 24 | 22 | 26 | 5 | 29 | 26 | 31 | 42 | |
| ♈ | 33 | 45 | 35 | 33 | 37 | 6 | 38 | 19 | 39 | 12 | 39 | 40 | ♎ |
| | 40 | 0 | 39 | 4 | 39 | 12 | 38 | 19 | 37 | 6 | 35 | 33 | ♏ |
| ♉ | 33 | 4 | 31 | 42 | 29 | 26 | 25 | 59 | 24 | 22 | 21 | 36 | |
| | 18 | 44 | 15 | 45 | 12 | 41 | 9 | 3 | 6 | 23 | 3 | 13 | ♐ |

# A brief Chronologie,

| | |
|---|---|
| THe building of the City of Rome. | 2403 |
| The destruction of Solomons Temple. | 2339 |
| The Constitution of the Iulian year 365 dayes 6 hours. | 1691 |
| The building of the City of LONDON. | 2758 |
| The last destruction of Ierusalem. | 1567 |
| England received the Christian faith. | 1471 |
| Duke William Conquered England. | 585 |
| Westminster Hall built. | 551 |
| The Invention of Guns. | 273 |
| The first Mayor of London. | 460 |
| The Invention of PRINTING. | 211 |
| K. Henry the 8. Conquered Bolloign. | 108 |
| Coaches were first used in England. | 95 |
| The blazing Star and Frosty Winter. | 79 |
| The great Massacre in France. | 90 |
| Pauls steeple was set on fire. | 90 |
| The generall Earthquake in England. | 71 |
| Tilbury Camp. | 63 |
| The Gunpowder Treason; November 5. | 46 |
| The Comet or blazing Star from November 18 to December 16. 1618. | 33 |
| Since The great Plague in London, 1625. | 26 |
| The last great Earthquake in England. | 25 |
| The Duke of Buckingham murthered. | 23 |
| The third part of London-bridge burnt. | 19 |
| King Charles advanced against Scotland. | 12 |
| This present Parliament now sitting at Westminster began November 3. 1640. | 11 |
| Earl of Strafford was beheaded on Towerhill May 12. | 10 |
| The Irish Rebelion began. | 10 |
| King Charles went from his Parliament, January 1. | 10 |
| King Charles set up his Standard at Nottingham. | 10 |
| Cheapside Crosse demolished, May 2. | 8 |
| The taking the Scots Covenant in England. | 8 |
| The three Suns appeared at noon day Novemb. 19. 1634. being King Charls his birth-day. | 7 6 |
| The Bishop of Canterbury was beheaded on Towerhill, January 10 1644. | 6 |
| Naseby fight, June 4. 1645. | 5 |

A Table shewing the Latitude and difference of Meridians of divers principall places in the World from the City of London, by the help whereof the Kalender may be made universall.

| The names of the places. | their distance. | Latitude. d | m | difference of M. h | m | The names of the places. | their distance. | Latitude. d | m | difference of M. h | m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Alexandria, | 2169 | 30 | 58 | 4 | 22 | Florence, | 760 | 43 | 10 | 0 | 57 |
| Antioch, | 2519 | 37 | 20 | 3 | 16 | Hamburgh | 538 | 55 | 42 | 0 | 56 |
| Antwerp, | 248 | 51 | 12 | 0 | 24 | Jerusalem, | 2355 | 32 | 40 | 3 | 3 |
| Athens, | 1624 | 37 | 40 | 2 | 56 | LONDON, | | 51 | 30 | | |
| Babylon, | 2724 | 35 | 03 | 3 | 56 | Naples, | 1051 | 40 | 42 | 1 | 16 |
| Barwick, | 267 | 55 | 00 | 0 | 2 | Ninive, | 2635 | 35 | 50 | 3 | 52 |
| Calecute, | 5114 | 11 | 20 | 8 | 2 | Oxford, | 47 | 51 | 30 | 0 | 5 |
| Carlisle. | 224 | 54 | 50 | 0 | 9 | Prague, | 700 | 50 | 6 | 1 | 14 |
| Cambridge, | 44 | 52 | 17 | 0 | 5 | Paris, | 215 | 48 | 40 | 0 | 13 |
| Calice, | 86 | 50 | 30 | 0 | 9 | Quzay, | 7273 | 37 | 40 | 11 | 28 |
| Constantinople, | 1547 | 43 | 5 | 2 | 42 | Rome, | 887 | 42 | 0 | 1 | 7 |
| Dublyn, | 295 | 54 | 40 | 0 | 29 | Red sea, | 2536 | 29 | 30 | 2 | 54 |
| Damascus | 2404 | 33 | 03 | 3 | 16 | Toledo, | 934 | 14 | 36 | 0 | 36 |
| Edenburgh, | 328 | 56 | 20 | 0 | 0 | Venice. | 744 | 45 | 15 | 1 | 3 |
| Ephesus, | 1808 | 37 | 02 | 3 | 02 | Yorke. | 150 | 53 | 30 | 0 | 0 |

*Of the use of the Table.*

By this Table may be known the distance, Latitude, and difference of Meridians between London and some other eminent places of the World, which will be of good use to find the time of the Moones changing in any of the said places, as also the hour of the day, and the Longitude or place of the Sun, Moon, and the other Planets, I shall make all appear by example.

Let it be required to find the distance, Latitude, and difference of Meridians between London and Jerusalem, I find Jerusalem in the first Column (in the second) that it is distant from London 2355 miles (in the third) that the Latitude thereof is 32 deg. 40 m. and (in the fourth) that the difference of Meridians between London and Jerusalem is 3 ho. 3 m. (a) and in this manner may you know the same for any of the other places.

Now suppose you would know at what time the Moon will change at Jerusalem in the Month of July this year, look in the Kalender, at what time it changeth at London, which you may finde to be the 7 da. at 9 m. past 3 in the afternoon, then seeing that the difference of Meridians between London and Jerusalem is 3. ho 3 m. you must add 3 ho 3 m. to 3 ho 9 m. and the sum is 6 ho 12 m. and at that time doth the Moon change at Jerusalem.

By having the hour of the day at London, the hour of the day may be found in any of the places in the Table, by adding or substracting the difference of Meridians, to or from the time at London, as the Letters A and S do denote.

FINIS.